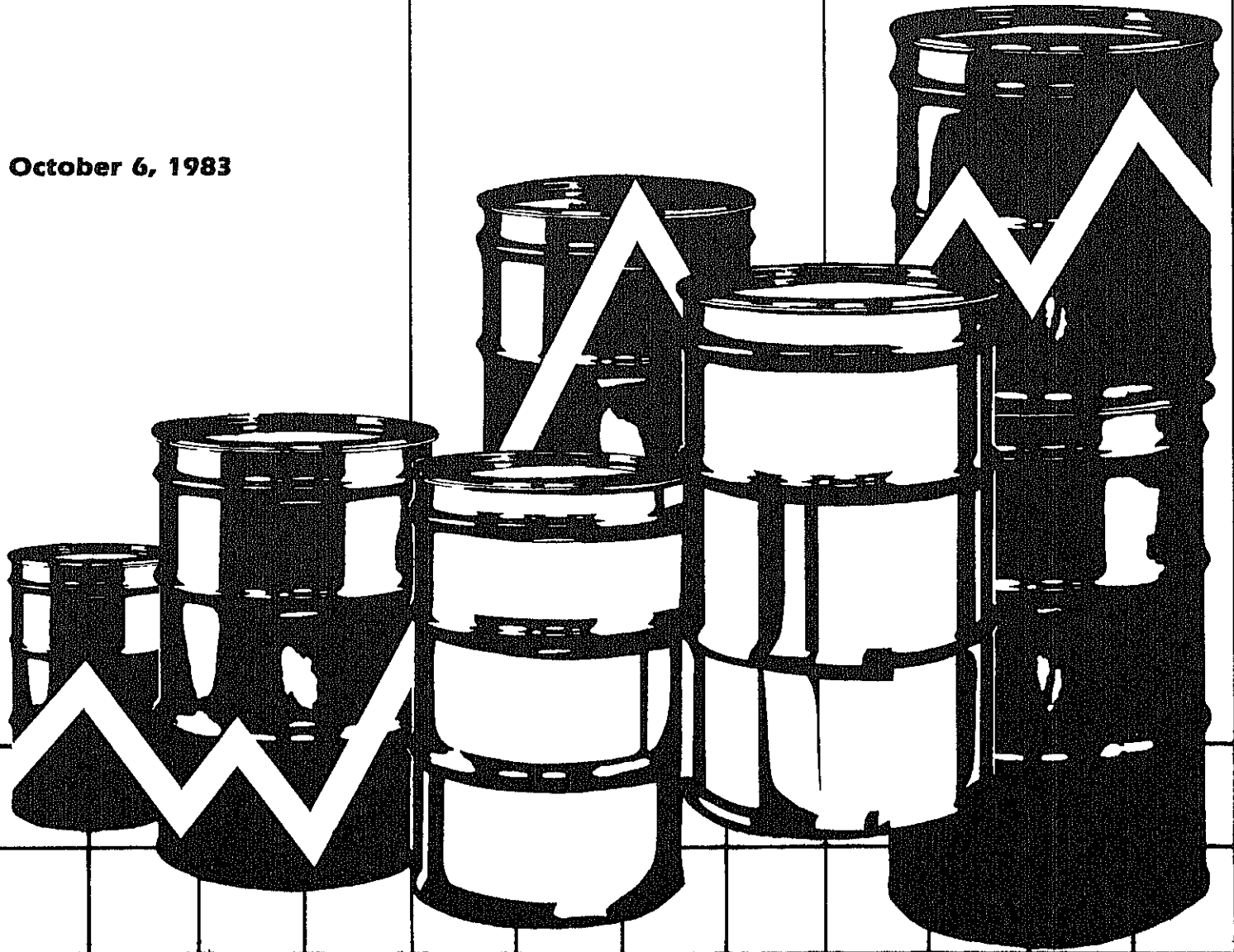




# Weekly Petroleum Status Report



October 6, 1983



The Weekly Petroleum Status Report (WPSR) provides timely information on the petroleum supply situation in the context of historical information, selected prices, and forecasts. The WPSR is intended to provide up-to-date information to the industry, the press, planners, policy-makers, consumers, analysts, and State and local governments. It is published each Thursday by the Energy Information Administration. The data contained in this report are based on company submissions for the week ending 7 a.m. the preceding Friday.

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After 5 p.m. Eastern time on Wednesdays, key statistics from the next morning's issue of the Weekly Petroleum Status Report will be available on DATALINE, EIA's recorded message service. The number is 202/252-6342. After noon Eastern time on Fridays, the message will also contain key statistics from the next Monday's issue of Weekly Coal Production.

If a week contains a Monday, Tuesday or Wednesday holiday, both DATALINE and publication schedules will be delayed one day.

Remember the DATALINE number:  
202/252-6342.

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This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or necessarily reflecting any policy position of the Department of Energy or any other organization.

## Highlights

### Refinery Operations

Crude oil inputs to refineries averaged 12.7 million barrels per day for the four weeks ending September 30, 1983. Refinery capacity utilization averaged 76.6 percent during the period. During the four weeks ending September 30, 1983, motor gasoline production averaged 6.7 million barrels a day, and distillate fuel oil production averaged 2.8 million barrels a day.

### Stocks

On September 30, 1983, stocks of crude oil (excluding the Strategic Petroleum Reserve) stood at 350.9 million barrels. Stocks of product stood as follows: total motor gasoline at 229.1 million barrels; distillate fuel oil at 153.5 million barrels; and residual fuel oil at 46.8 million barrels.

### Imports

Net imports of crude oil (including imports for the Strategic Petroleum Reserve) and petroleum products together averaged 5.4 million barrels a day for the four weeks ending September 30, 1983, about 17 percent above the average a year ago. Gross imports of crude oil (excluding the Strategic Petroleum Reserve) averaged 4.0 million barrels a day for the four-week period ending September 30, 1983.

### Products Supplied

Total petroleum products supplied averaged 15.5 million barrels a day for the four-week period ending September 30, 1983, which is about 3 percent above the rate supplied a year ago. Motor gasoline was supplied at a rate of 6.6 million barrels a day, which is about 2 percent above the rate supplied a year ago. Distillate fuel oil was supplied at a rate of 2.6 million barrels a day, about 3 percent above the rate supplied a year ago.

### World Crude Oil Price

Mexico increased the official price of its heavy crude, 22 API degree Maya, by \$1.00 to \$25.00 a barrel, effective October 1, 1983.

As a result of the change noted above, the weighted average international price of crude oil as of October 4, 1983, is estimated to be \$28.67 a barrel.

### Spot Market Product Price

For the week ending September 30, 1983, the average spot market price of 98 octane gasoline on the Rotterdam market decreased \$1.17 to \$33.24 a barrel; the gasoil price decreased 14 cents to \$33.71 a barrel, and the price of residual fuel oil increased 68 cents to \$27.63 a barrel. On the New York market, the average spot price of 89 octane regular gasoline decreased 95 cents to \$34.92 a barrel; the price of No.2 heating oil decreased 99 cents to \$34.02 a barrel, and the residual fuel oil price remained unchanged for the fourth consecutive week at \$28.75 a barrel.

### Changes in Average Stock Ranges

This issue of the WPSR presents updated average stock ranges on pages 7, 9, 11, and 13. The stock ranges and observed minimum for total crude oil and petroleum product stocks have been recomputed according to the procedure described in Appendix B. Appendix B also presents the values for the new ranges.



**U.S. Petroleum Balance Sheet**  
(Thousands of Barrels per Day)

|   | Four-Week Averages<br>For Period Ending |          | Percent<br>Change | Cumulative<br>Daily Averages<br>272 Days |        | Percent<br>Change |
|---|---|----------|-------------------|--|--------|-------------------|
|   | 09/30/83                                | 09/30/82 |                   | 1983                                     | 1982   |                   |
| Crude Oil Supply  |   |          |                   |  |        |                   |
| (1) Domestic Production <sup>1</sup>                        | E8,666                                  | 8,701    | -0.4              | E8,664                                   | 8,643  | 0.3               |
| (2) Net Imports (Including SPR) <sup>2</sup>                | 4,181                                   | 3,452    | 21.1              | 3,123                                    | 3,246  | -3.8              |
| (3) Gross Imports (Excluding SPR)                           | 4,015                                   | 3,497    | 14.8              | 3,051                                    | 3,319  | -8.1              |
| (4) SPR Imports   | 310                                     | 139      | --                | 247                                      | 162    | --                |
| (5) Exports   | E145                                    | 184      | -21.5             | E175                                     | 235    | -25.5             |
| (6) SPR Stocks Withdrawn (+) or Added (-)                   | -310                                    | -143     | --                | -245                                     | -174   | --                |
| (7) Other Stocks Withdrawn (+) or Added (-)                 | -5                                      | 406      | --                | -3                                       | 82     | --                |
| (8) Products Supplied and Losses <sup>3</sup>               | E-66                                    | -60      | --                | E-66                                     | -65    | --                |
| (9) Unaccounted-for Crude                                   | 186                                     | -210     | --                | 236                                      | 78     | --                |
| (10) Crude Oil Input to Refineries                          | 12,652                                  | 12,146   | 4.2               | 11,708                                   | 11,810 | -0.9              |
| Other Supply  |   |          |                   |  |        |                   |
| (11) NGL Production   | E1,525                                  | 1,518    | 0.5               | E1,539                                   | 1,538  | 0.1               |
| (12) Other Hydrocarbon Input and Alcohol Input              | E63                                     | 60       | 4.2               | E56                                      | 51     | 9.9               |
| (13) Crude Oil Product Supplied <sup>3</sup>                | E65                                     | 56       | 15.2              | E64                                      | 61     | 5.5               |
| (14) Processing Gain  | 601                                     | 517      | 16.2              | 497                                      | 516    | -3.7              |
| (15) Net Product Imports <sup>4</sup>                       | 1,223                                   | 1,172    | 4.3               | 997                                      | 1,032  | -3.4              |
| (16) Gross Product Imports <sup>4</sup>                     | 1,751                                   | 1,778    | -1.5              | 1,614                                    | 1,597  | 1.1               |
| (17) Product Exports  | E528                                    | 606      | -12.9             | E618                                     | 565    | 9.3               |
| (18) Product Stocks Withdrawn (+) or Added (-) <sup>5</sup> | -670                                    | -447     | --                | 154                                      | 348    | --                |
| (19) Total Product Supplied for Domestic Use                | 15,457                                  | 15,022   | 2.9               | 15,015                                   | 15,356 | -2.2              |
| Products Supplied   |   |          |                   |  |        |                   |
| (20) Motor Gasoline   | 6,641                                   | 6,531    | 1.7               | 6,593                                    | 6,551  | 0.6               |
| (21) Naphtha-type Jet Fuel                                  | 172                                     | 193      | -10.7             | 208                                      | 210    | -0.9              |
| (22) Kerosene-type Jet Fuel                                 | 882                                     | 840      | 5.0               | 832                                      | 799    | 4.1               |
| (23) Distillate Fuel Oil <sup>3</sup>                       | 2,591                                   | 2,507    | 3.3               | 2,592                                    | 2,682  | -3.4              |
| (24) Residual Fuel Oil <sup>3</sup>                         | 1,365                                   | 1,470    | -7.2              | 1,413                                    | 1,770  | -20.2             |
| (25) Other Oils <sup>6</sup>                                | 3,807                                   | 3,481    | 9.4               | 3,377                                    | 3,344  | 1.0               |
| (26) Total Products Supplied                                | 15,457                                  | 15,022   | 2.9               | 15,015                                   | 15,356 | -2.2              |

| Petroleum Stocks<br>(Millions of Barrels) | 09/30/83 | 09/23/83 | 09/30/82 | Percent Change from<br>Previous Week Year Ago |      |
|---|----------|----------|----------|---|------|
| Crude Oil (Excluding SPR) <sup>7</sup>    | 350.9    | 350.1    | 341.1    | 0.2   | NM   |
| Total Motor Gasoline                      | 229.1    | 228.4    | 233.4    | 0.3   | NM   |
| Finished Motor Gasoline                   | 191.8    | 190.7    | 190.9    | 0.6   | NM   |
| Blending Components                       | 37.3     | 37.7     | 42.5     | -1.0  | NM   |
| Naphtha-type Jet Fuel                     | 6.4      | 6.7      | 6.3      | -3.9  | NM   |
| Kerosene-type Jet Fuel                    | 35.1     | 34.8     | 33.4     | 1.0   | NM   |
| Distillate Fuel Oil                       | 153.5    | 153.8    | 161.1    | -0.2  | NM   |
| Residual Fuel Oil                         | 46.8     | 48.8     | 61.5     | -4.1  | NM   |
| Unfinished Oils                           | 113.2    | 112.2    | 117.8    | 0.8   | -3.9 |
| Other Oils <sup>8</sup>                   | E192.2   | E192.2   | 181.5    | 0.0   | NM   |
| Total Stocks (Excluding SPR)              | 1,127.3  | 1,127.1  | 1,136.0  | 0.0   | NM   |
| Crude Oil in SPR                          | 360.5    | 358.3    | 277.7    | 0.6   | 29.8 |
| Total Stocks (Including SPR)              | 1,487.7  | 1,485.4  | 1,413.8  | 0.2   | NM   |

NM=Not meaningful because of different stock basis. See Appendix D.

E=Estimate based on monthly data.

1 Includes lease condensate.

2 Net Imports = Gross Imports (line 3) + SPR Imports (line 4) - Exports (line 5).

3 In 1983 crude oil burned as fuel is treated as a product and a new category, crude oil product supplied, has been created. In prior years crude oil burned as fuel was treated as a transfer of crude oil to residual and distillate fuel oil product categories and was an element of the product supplied calculations of those products. Product supplied series for distillate and residual fuel oils for 1982, shown in the second and fifth columns of the U.S. Petroleum Balance Sheet have been recalculated without these transfers. See Appendix D. Among the product supplied categories of the balance, crude oil product supplied is included in other oils product supplied.

4 Includes unfinished oils and natural gas plant liquids for processing.

5 Includes an estimate of minor product stock change based on monthly data.

6 Other oils product supplied reflects crude oil product supplied and the reduction for reclassified products.

7 Includes crude oil in transit to refineries.

8 Included are stocks of all other oils such as aviation gasoline, natural gas liquids (including ethane), kerosene, petrochemical feedstocks, special naphthas, lube oils, wax, coke, asphalt, road oil, and miscellaneous oils. For the current two weeks, stocks of these minor products are estimated from monthly data.

Note: Due to independent rounding, individual product detail may not add to total.

The percentages shown are calculated using unrounded numbers.

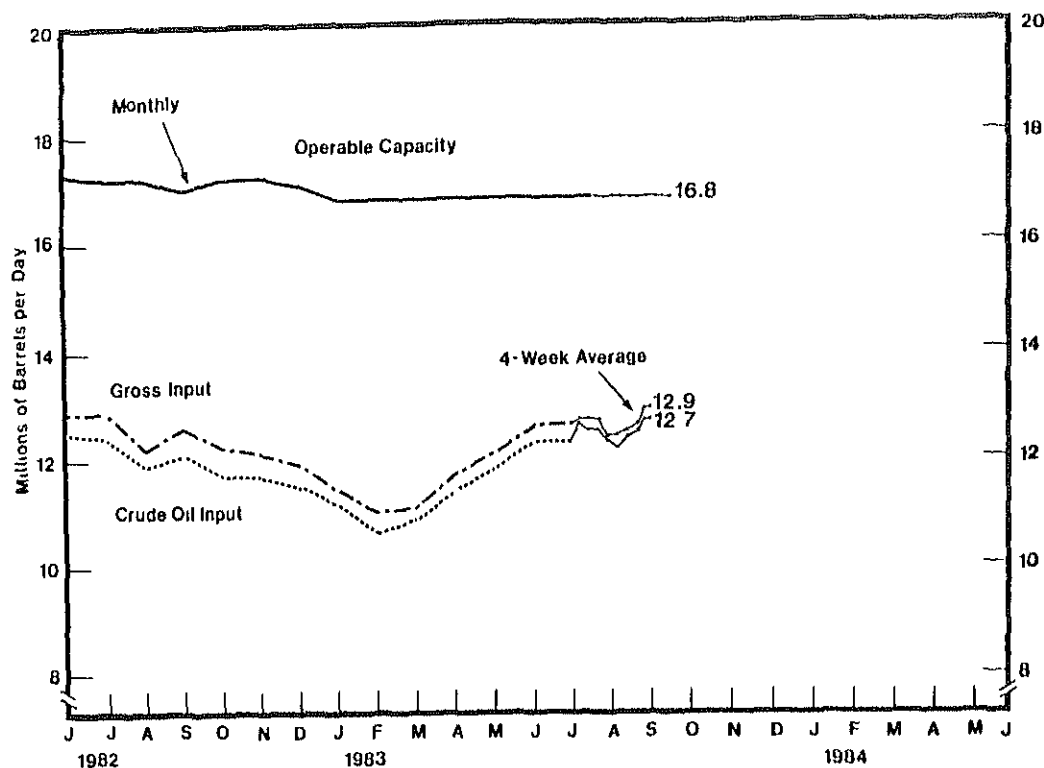
SOURCES:

o 1981-1982: EIA, "Petroleum Supply Annual."

o 1983 Monthly Data: EIA, "Petroleum Supply Monthly."

o 1983 Four-Week Averages: Estimates based on EIA weekly data.

# Refinery Inputs and Utilization (Millions of Barrels per Day)



| Year/Product                                | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct  | Nov  | Dec  |
|---|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|------|------|------|
| <b>1981</b>                                 |            |             |             |             |            |            |             |             |             |      |      |      |
| Crude Oil Input                             | 13.2       | 12.9        | 12.4        | 12.1        | 12.3       | 12.4       | 12.3        | 12.9        | 12.5        | 12.1 | 12.2 | 12.3 |
| Gross Inputs                                | 13.5       | 13.2        | 12.6        | 12.3        | 12.6       | 12.7       | 12.6        | 13.2        | 12.7        | 12.4 | 12.6 | 12.7 |
| Operable Capacity                           | 18.6       | 18.7        | 18.7        | 18.7        | 18.7       | 18.7       | 18.7        | 18.7        | 18.6        | 18.4 | 18.4 | 18.4 |
| Percentage Utilization <sup>1</sup>         | 72.5       | 70.8        | 67.7        | 65.7        | 67.2       | 68.1       | 67.4        | 70.6        | 68.4        | 67.0 | 68.2 | 69.2 |
| <b>1982</b>                                 |            |             |             |             |            |            |             |             |             |      |      |      |
| Crude Oil Input                             | 11.6       | 11.2        | 11.3        | 11.4        | 11.8       | 12.5       | 12.4        | 11.9        | 12.1        | 11.7 | 11.7 | 11.5 |
| Gross Inputs                                | 12.0       | 11.6        | 11.7        | 11.8        | 12.2       | 12.9       | 12.9        | 12.2        | 12.6        | 12.2 | 12.1 | 11.9 |
| Operable Capacity                           | 17.9       | 17.8        | 17.8        | 17.8        | 17.8       | 17.3       | 17.2        | 17.2        | 17.0        | 17.2 | 17.2 | 17.1 |
| Percentage Utilization <sup>1</sup>         | 67.0       | 65.1        | 65.5        | 66.2        | 68.8       | 74.9       | 74.9        | 71.0        | 73.9        | 70.6 | 70.6 | 69.7 |
| <b>1983</b>                                 |            |             |             |             |            |            |             |             |             |      |      |      |
| Crude Oil Input                             | 11.1       | 10.6        | 10.9        | 11.4        | 11.8       | 12.3       | 12.3        |             |             |      |      |      |
| Gross Inputs                                | 11.4       | 11.0        | 11.1        | 11.7        | 12.1       | 12.6       | 12.6        |             |             |      |      |      |
| Operable Capacity                           | 16.8       | 16.8        | 16.8        | 16.8        | 16.8       | 16.8       | 16.8        |             |             |      |      |      |
| Percentage Utilization <sup>1</sup>         | 67.9       | 65.4        | 66.0        | 69.3        | 71.6       | 74.9       | 74.9        |             |             |      |      |      |
| <b>Average for Four-Week Period Ending:</b> |            |             |             |             |            |            |             |             |             |      |      |      |
| <b>1983</b>                                 | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |      |      |      |
| Crude Oil Input                             | 12.6       | 12.5        | 12.5        | 12.3        | 12.2       | 12.4       | 12.5        | 12.7        | 12.7        |      |      |      |
| Gross Inputs                                | 12.7       | 12.7        | 12.7        | 12.4        | 12.4       | 12.5       | 12.6        | 12.9        | 12.9        |      |      |      |
| Operable Capacity                           | E16.8      | E16.8       | E16.8       | E16.8       | E16.8      | E16.8      | E16.8       | E16.8       | E16.8       |      |      |      |
| Percentage Utilization <sup>1</sup>         | 75.5       | 75.3        | 75.3        | 74.0        | 73.6       | 74.6       | 75.2        | 76.6        | 76.6        |      |      |      |

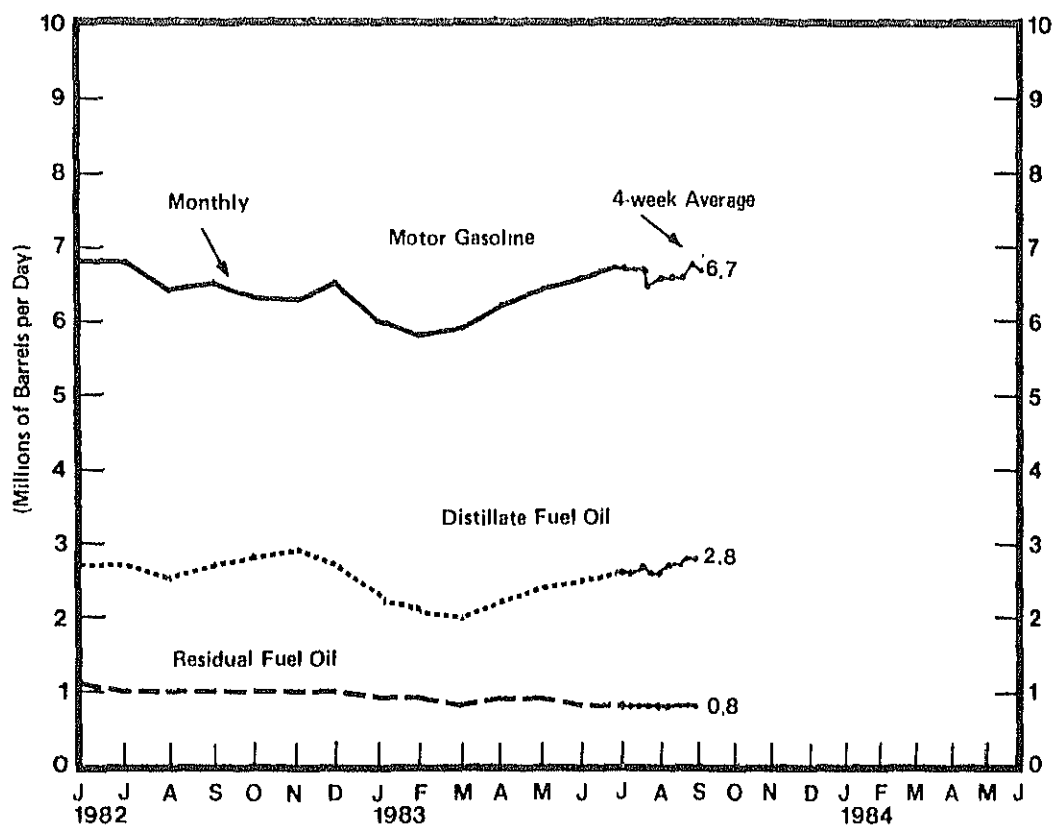
F=Estimate based on most recent monthly data

Percentage utilization is calculated as gross inputs divided by operable capacity. See glossary. Percentages are calculated using unrounded numbers.

Source: Monthly Data 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."

• Four Week Averages Estimates based on EIA weekly data.

**U.S. Refinery Production by Product**  
(Millions of Barrels per Day)



| Year/Product                                | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct | Nov | Dec |
|---|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-----|-----|-----|
| <b>1981</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Motor Gasoline                              | 6.7        | 6.3         | 6.2         | 6.1         | 6.1        | 6.2        | 6.4         | 6.6         | 6.6         | 6.4 | 6.6 | 6.6 |
| Jet Fuel                                    | 1.0        | 0.9         | 1.0         | 1.0         | 1.0        | 1.0        | 1.0         | 1.0         | 0.9         | 0.9 | 1.0 | 0.9 |
| Distillate Fuel Oil                         | 3.0        | 2.8         | 2.5         | 2.4         | 2.5        | 2.5        | 2.4         | 2.7         | 2.6         | 2.5 | 2.7 | 2.9 |
| Residual Fuel Oil                           | 1.6        | 1.6         | 1.4         | 1.3         | 1.2        | 1.2        | 1.2         | 1.2         | 1.3         | 1.2 | 1.2 | 1.3 |
| <b>1982</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Motor Gasoline                              | 6.2        | 5.9         | 6.0         | 6.1         | 6.3        | 6.8        | 6.8         | 6.4         | 6.5         | 6.3 | 6.3 | 6.5 |
| Jet Fuel                                    | 0.9        | 1.0         | 1.1         | 1.0         | 0.9        | 0.9        | 1.0         | 1.0         | 1.0         | 1.0 | 1.0 | 0.9 |
| Distillate Fuel Oil                         | 2.6        | 2.4         | 2.3         | 2.4         | 2.6        | 2.7        | 2.7         | 2.5         | 2.7         | 2.8 | 2.9 | 2.7 |
| Residual Fuel Oil                           | 1.2        | 1.2         | 1.1         | 1.2         | 1.1        | 1.1        | 1.0         | 1.0         | 1.0         | 1.0 | 1.0 | 1.0 |
| <b>1983</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Motor Gasoline                              | 6.0        | 5.8         | 5.9         | 6.2         | 6.4        | 6.6        | 6.7         |             |             |     |     |     |
| Jet Fuel                                    | 1.0        | 1.0         | 1.0         | 1.0         | 1.0        | 1.0        | 1.0         |             |             |     |     |     |
| Distillate Fuel Oil                         | 2.3        | 2.1         | 2.0         | 2.2         | 2.4        | 2.5        | 2.6         |             |             |     |     |     |
| Residual Fuel Oil                           | 0.9        | 0.9         | 0.8         | 0.9         | 0.9        | 0.8        | 0.8         |             |             |     |     |     |
| <b>Average for Four-Week Period Ending:</b> |            |             |             |             |            |            |             |             |             |     |     |     |
| <b>1983</b>                                 | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |     |     |     |
| Motor Gasoline                              | 6.7        | 6.7         | 6.7         | 6.5         | 6.6        | 6.6        | 6.6         | 6.8         | 6.7         |     |     |     |
| Jet Fuel                                    | 1.0        | 1.0         | 1.0         | 1.0         | 1.0        | 1.0        | 1.0         | 1.1         | 1.1         |     |     |     |
| Distillate Fuel Oil                         | 2.6        | 2.6         | 2.7         | 2.6         | 2.6        | 2.7        | 2.7         | 2.8         | 2.8         |     |     |     |
| Residual Fuel Oil                           | 0.8        | 0.8         | 0.8         | 0.8         | 0.8        | 0.8        | 0.8         | 0.8         | 0.8         |     |     |     |

Note: Production statistics represent net production (i.e., refinery output minus refinery input).  
Source: • Monthly Data: 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."  
• Four-Week Averages: Estimates based on EIA weekly data.



# Stocks of Crude Oil and Petroleum Products,<sup>1</sup> U.S. Totals (Millions of Barrels)

| Year/Product                             | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct     | Nov     | Dec     |
|--|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|---------|---------|---------|
| <b>1981</b>                              |            |             |             |             |            |            |             |             |             |         |         |         |
| Crude Oil <sup>2</sup>                   | 374.0      | 378.2       | 393.0       | 397.5       | 393.7      | 384.7      | 385.9       | 362.0       | 356.0       | 364.0   | 366.0   | 363.5   |
| Motor Gasoline                           | 276.1      | 284.0       | 285.0       | 272.1       | 258.3      | 241.6      | 227.7       | 233.3       | 237.1       | 236.1   | 248.4   | 263.0   |
| Finished Gasoline                        | 226.3      | 229.6       | 232.1       | 223.2       | 212.6      | 194.0      | 185.7       | 188.6       | 190.7       | 190.5   | 200.6   | 203.4   |
| Blending Components                      | 49.8       | 54.4        | 52.9        | 48.9        | 45.7       | 47.6       | 42.0        | 44.7        | 46.4        | 45.6    | 47.8    | 49.5    |
| Jet Fuel                                 | 39.5       | 38.6        | 39.0        | 40.4        | 44.5       | 44.9       | 44.8        | 44.7        | 43.1        | 42.7    | 42.0    | 41.1    |
| Distillate Fuel Oil                      | 179.4      | 172.5       | 164.3       | 164.6       | 171.8      | 179.9      | 186.3       | 200.2       | 207.3       | 201.2   | 200.1   | 191.5   |
| Residual Fuel Oil                        | 82.1       | 77.9        | 74.8        | 72.9        | 78.1       | 69.4       | 69.3        | 74.9        | 80.2        | 79.9    | 81.4    | 78.0    |
| Unfinished Oils                          | 121.5      | 122.3       | 126.2       | 126.5       | 126.3      | 126.1      | 126.1       | 124.5       | 118.4       | 119.5   | 116.4   | 111.3   |
| Other Oils                               | 202.7      | 199.1       | 198.1       | 206.5       | 208.5      | 220.5      | 225.4       | 232.8       | 234.6       | 226.7   | 224.6   | 214.9   |
| Total Stocks (Excl. SPR)                 | 1,275.3    | 1,272.5     | 1,280.3     | 1,280.5     | 1,288.3    | 1,267.1    | 1,265.4     | 1,272.5     | 1,276.7     | 1,270.0 | 1,278.9 | 1,253.3 |
| Crude Oil in SPR                         | 112.5      | 116.1       | 120.9       | 134.2       | 150.1      | 163.1      | 173.1       | 184.7       | 199.2       | 214.8   | 222.5   | 230.3   |
| Total Stocks (Incl. SPR)                 | 1,387.8    | 1,388.5     | 1,401.2     | 1,414.8     | 1,438.3    | 1,430.2    | 1,438.5     | 1,457.2     | 1,476.0     | 1,484.8 | 1,501.5 | 1,483.6 |
| <b>1982</b>                              |            |             |             |             |            |            |             |             |             |         |         |         |
| Crude Oil <sup>2</sup>                   | 371.0      | 371.8       | 360.7       | 354.8       | 348.5      | 344.1      | 345.7       | 352.9       | 340.7       | 351.0   | 357.6   | 349.7   |
| Motor Gasoline                           | 260.8      | 256.6       | 246.5       | 221.3       | 213.9      | 218.5      | 225.9       | 226.9       | 233.6       | 234.4   | 230.0   | 235.4   |
| Finished Gasoline                        | 213.2      | 208.4       | 198.1       | 178.6       | 173.1      | 177.1      | 182.7       | 185.2       | 191.1       | 192.4   | 189.3   | 194.4   |
| Blending Components                      | 47.6       | 48.3        | 48.5        | 42.7        | 40.8       | 41.4       | 43.2        | 41.8        | 42.5        | 42.0    | 40.7    | 40.9    |
| Jet Fuel                                 | 36.9       | 36.9        | 42.5        | 44.1        | 41.7       | 39.9       | 39.8        | 40.7        | 39.6        | 40.9    | 40.8    | 36.8    |
| Distillate Fuel Oil                      | 164.4      | 147.4       | 126.3       | 108.0       | 113.6      | 123.7      | 148.1       | 158.7       | 161.2       | 170.1   | 185.6   | 178.6   |
| Residual Fuel Oil                        | 68.7       | 58.5        | 58.1        | 53.6        | 59.0       | 60.7       | 58.9        | 52.6        | 61.8        | 63.6    | 66.4    | 66.2    |
| Unfinished Oils                          | 115.9      | 116.5       | 115.9       | 119.1       | 118.2      | 118.0      | 117.8       | 116.8       | 117.8       | 113.3   | 111.8   | 105.3   |
| Other Oils                               | 203.0      | 199.1       | 193.3       | 189.2       | 190.8      | 191.1      | 190.1       | 185.4       | 181.3       | 174.6   | 173.3   | 164.1   |
| Total Stocks (Excl. SPR)                 | 1,220.6    | 1,186.9     | 1,143.4     | 1,090.0     | 1,085.7    | 1,098.0    | 1,126.3     | 1,134.9     | 1,136.1     | 1,147.8 | 1,165.2 | 1,136.1 |
| Crude Oil in SPR                         | 235.3      | 241.2       | 248.5       | 255.5       | 261.0      | 264.1      | 267.2       | 273.6       | 277.9       | 284.6   | 290.0   | 293.8   |
| Total Stocks (Incl. SPR)                 | 1,455.9    | 1,428.2     | 1,391.9     | 1,345.6     | 1,346.7    | 1,362.2    | 1,393.5     | 1,408.5     | 1,414.0     | 1,432.4 | 1,455.2 | 1,429.9 |
| <b>1983<sup>3</sup></b>                  |            |             |             |             |            |            |             |             |             |         |         |         |
| Crude Oil <sup>2</sup>                   | 360.9      | 366.0       | 358.6       | 365.8       | 354.6      | 353.8      | 342.0       |             |             |         |         |         |
| Motor Gasoline                           | 250.9      | 251.1       | 224.0       | 220.8       | 224.6      | 223.2      | 230.6       |             |             |         |         |         |
| Finished Gasoline                        | 208.3      | 207.4       | 183.7       | 182.9       | 186.8      | 183.3      | 189.8       |             |             |         |         |         |
| Blending Components                      | 42.6       | 43.8        | 40.3        | 37.9        | 37.8       | 39.9       | 40.8        |             |             |         |         |         |
| Jet Fuel                                 | 41.7       | 40.5        | 42.2        | 40.3        | 41.3       | 41.3       | 41.7        |             |             |         |         |         |
| Distillate Fuel Oil                      | 168.2      | 147.4       | 118.7       | 103.2       | 109.2      | 113.8      | 131.0       |             |             |         |         |         |
| Residual Fuel Oil                        | 60.7       | 53.1        | 46.3        | 46.6        | 50.9       | 50.1       | 51.9        |             |             |         |         |         |
| Unfinished Oils                          | 110.3      | 108.3       | 111.3       | 114.1       | 112.4      | 110.1      | 107.1       |             |             |         |         |         |
| Other Oils                               | 159.6      | 159.3       | 162.5       | 167.2       | 177.2      | 184.4      | 189.2       |             |             |         |         |         |
| Total Stocks (Excl. SPR)                 | 1,152.2    | 1,125.7     | 1,063.6     | 1,057.9     | 1,070.3    | 1,076.8    | 1,093.5     |             |             |         |         |         |
| Crude Oil in SPR                         | 300.6      | 306.1       | 311.8       | 317.7       | 326.8      | 332.5      | 340.7       |             |             |         |         |         |
| Total Stocks (Incl. SPR)                 | 1,452.8    | 1,431.9     | 1,375.4     | 1,375.7     | 1,397.1    | 1,409.3    | 1,434.2     |             |             |         |         |         |
| <b>Week Ending,<br/>1983<sup>4</sup></b> | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |         |         |         |
| Crude Oil <sup>2</sup>                   | 344.6      | 336.9       | 342.9       | 347.0       | 350.8      | 348.3      | 350.0       | 350.1       | 350.8       |         |         |         |
| Motor Gasoline                           | 226.8      | 227.7       | 224.8       | 223.7       | 223.0      | 227.4      | 228.6       | 228.4       | 229.1       |         |         |         |
| Finished Gasoline                        | 188.4      | 188.3       | 185.7       | 184.5       | 184.1      | 188.6      | 190.8       | 190.7       | 191.8       |         |         |         |
| Blending Components                      | 38.4       | 39.5        | 39.1        | 39.2        | 38.9       | 38.9       | 37.8        | 37.7        | 37.3        |         |         |         |
| Jet Fuel                                 | 40.2       | 39.7        | 39.6        | 39.2        | 39.4       | 39.7       | 40.4        | 41.5        | 41.5        |         |         |         |
| Distillate Fuel Oil                      | 131.4      | 134.3       | 137.6       | 138.5       | 142.8      | 146.7      | 150.4       | 153.8       | 153.5       |         |         |         |
| Residual Fuel Oil                        | 48.1       | 46.5        | 45.2        | 44.9        | 46.3       | 44.8       | 46.1        | 48.8        | 46.8        |         |         |         |
| Unfinished Oils                          | 108.3      | 107.8       | 108.0       | 109.0       | 111.7      | 111.3      | 112.7       | 112.2       | 113.2       |         |         |         |
| Other Oils <sup>4</sup>                  | E188.9     | E189.6      | E190.2      | E193.8      | E194.4     | E194.3     | E194.3      | E192.2      | E192.2      |         |         |         |
| Total Stocks (Excl. SPR)                 | 1,088.3    | 1,082.5     | 1,088.3     | 1,096.0     | 1,108.4    | 1,112.6    | 1,122.5     | 1,127.1     | 1,127.3     |         |         |         |
| Crude Oil in SPR                         | 341.8      | 343.9       | 345.7       | 349.0       | 351.8      | 353.3      | 355.7       | 358.3       | 360.5       |         |         |         |
| Total Stocks (Incl. SPR)                 | 1,430.1    | 1,426.5     | 1,434.0     | 1,445.1     | 1,460.2    | 1,465.9    | 1,478.2     | 1,485.4     | 1,487.7     |         |         |         |

E=Estimated. See definition of "Stock Change (Refined Products)" for explanation of other oils estimate methodology.

<sup>1</sup> Product stocks include those stocks held at refineries, in pipelines, and at major bulk terminals. Stocks held at natural gas processing plants are included in "Other Oils" and in totals. All stock levels are as of the end of the period.

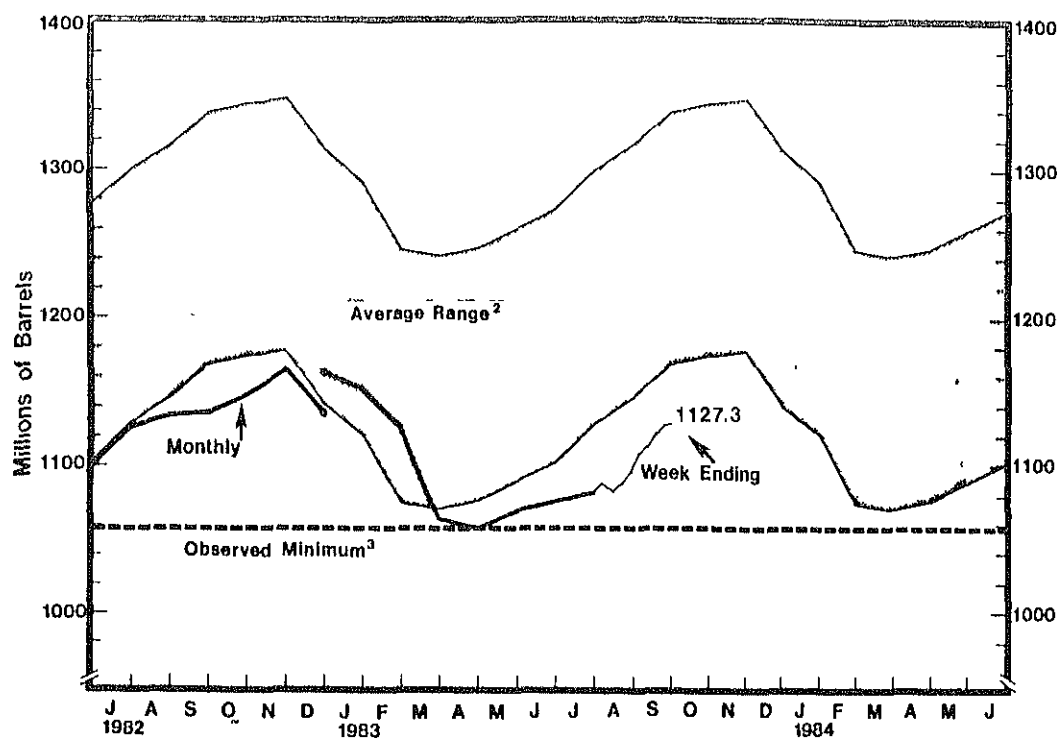
<sup>2</sup> Crude oil stocks include those stocks held at refineries, in pipelines, in lease tanks, and in transit to refineries, and do not include those held in the Strategic Petroleum Reserve.

<sup>3</sup> See Appendix D for explanation of the 1983 new stock basis.

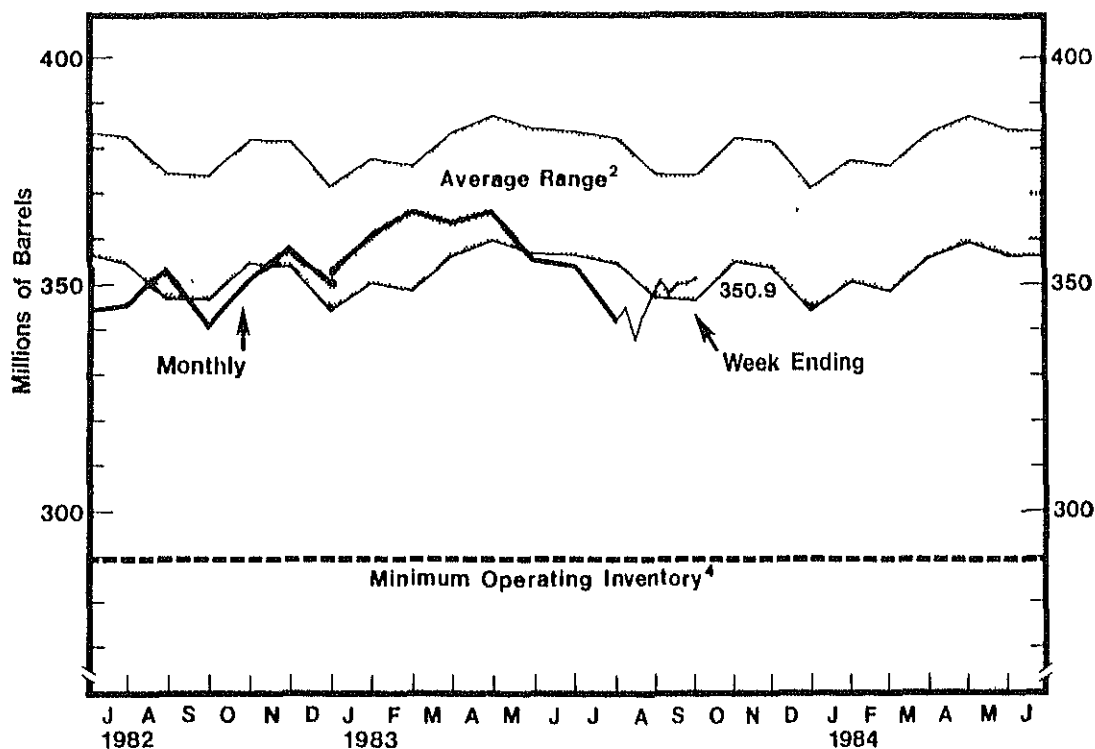
<sup>4</sup> Weekly totals for stocks of other oils are estimated using monthly data. Other oils include kerosene, aviation gasoline, natural gas liquids including ethane, petrochemical feedstocks, special naphthas, lube oil, wax, coke, asphalt, road oil, and miscellaneous oils.

Source: • Monthly Data: 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly,"  
• Week Ending Stocks: Estimates based on EIA weekly data.

**Stocks of Crude Oil and Petroleum Products, U.S. Total<sup>1</sup>**  
(Millions of Barrels)



**Stocks of Crude Oil, U.S. Total<sup>1</sup>**  
(Millions of Barrels)



<sup>1</sup> Excludes stocks held in the Strategic Petroleum Reserve and includes crude oil in transit to refineries. See Appendix D for explanation of the 1983 new stock basis.

<sup>2</sup> Average level, width of average range, and observed minimum are based on three years of monthly data, July 1980–June 1983. The seasonal pattern is based on seven years of monthly data, January 1976–December 1982. See Appendix B for further explanation.

<sup>3</sup> The observed minimum for total stocks in the last three year period July 1980–June 1983, was 1057.9 million barrels. It occurred in April 1983. See Appendix B for further explanation.

<sup>4</sup> The National Petroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for crude oil to be 290 million barrels. See Appendix B for further explanation. The 1979 study is currently under review.

Sources: a Ranges and Seasonal Patterns 1976–1980, EIA, "Petroleum Statement, Annual (Final Summary)," 1981–1982, EIA, "Petroleum Supply Annual."

b Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."

c Week Ending Stocks: Estimates based on EIA weekly data.

Stocks of Motor Gasoline by Petroleum Administration for Defense District  
(Millions of Barrels)

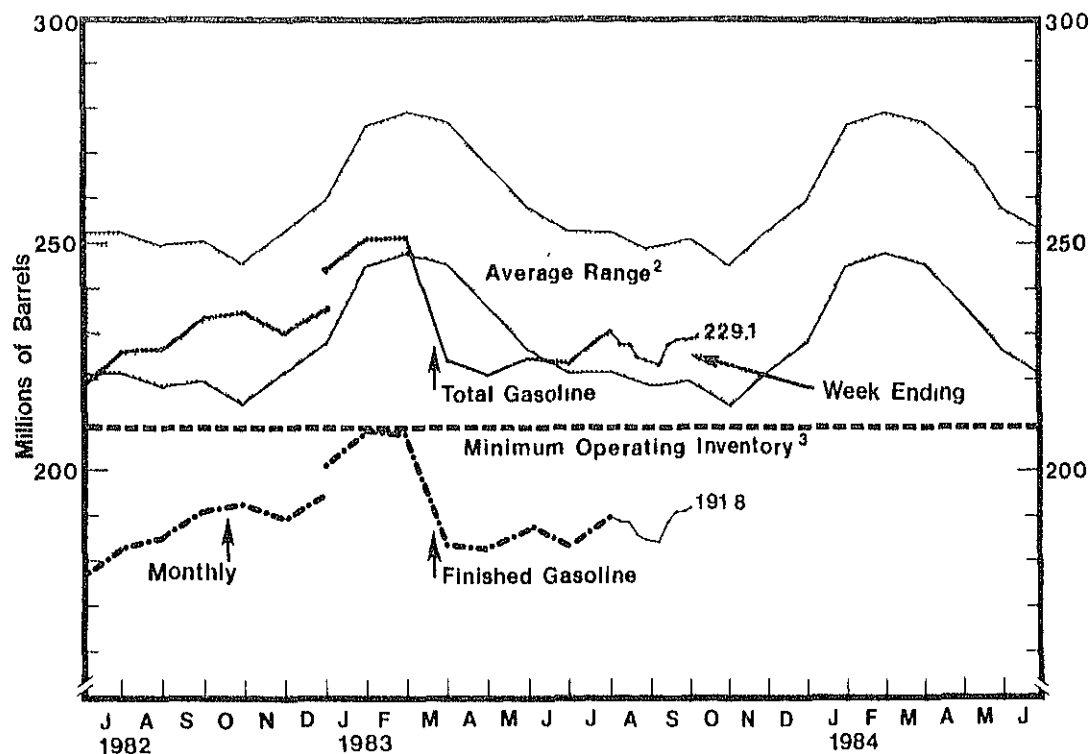
| Year/District           | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct   | Nov   | Dec   |
|-------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-------|-------|-------|
| <b>1981</b>             |            |             |             |             |            |            |             |             |             |       |       |       |
| Finished Gasoline       | 226.3      | 229.6       | 232.1       | 223.2       | 212.6      | 194.0      | 185.7       | 188.6       | 190.7       | 190.5 | 200.6 | 203.4 |
| Blending Components     | 49.8       | 54.4        | 52.9        | 48.9        | 45.7       | 47.6       | 42.0        | 44.7        | 46.4        | 45.6  | 47.8  | 49.5  |
| Total Gasoline          | 276.1      | 284.0       | 285.0       | 272.1       | 258.3      | 241.6      | 227.7       | 233.3       | 237.1       | 236.1 | 248.4 | 253.0 |
| East Coast (PAD 1)      | 71.7       | 74.2        | 79.5        | 77.9        | 73.1       | 69.5       | 62.7        | 64.3        | 69.6        | 69.6  | 69.7  | 69.5  |
| Midwest (PAD 2)         | 86.0       | 90.4        | 89.7        | 84.2        | 80.1       | 72.4       | 65.9        | 66.7        | 65.3        | 66.0  | 69.2  | 72.6  |
| Gulf Coast (PAD 3)      | 77.2       | 79.6        | 78.5        | 76.2        | 72.2       | 65.9       | 64.0        | 68.6        | 68.5        | 65.0  | 70.6  | 69.5  |
| Rocky Mountain (PAD 4)  | 9.7        | 10.3        | 10.2        | 9.4         | 8.6        | 7.4        | 6.5         | 6.0         | 5.8         | 6.3   | 7.7   | 8.5   |
| West Coast (PAD 5)      | 31.5       | 29.5        | 26.9        | 24.4        | 24.3       | 26.3       | 28.6        | 27.8        | 27.9        | 29.2  | 31.2  | 32.9  |
| <b>1982</b>             |            |             |             |             |            |            |             |             |             |       |       |       |
| Finished Gasoline       | 213.2      | 208.4       | 198.1       | 178.6       | 173.1      | 177.1      | 182.7       | 185.2       | 191.1       | 192.4 | 189.3 | 194.4 |
| Blending Components     | 47.6       | 48.3        | 48.5        | 42.7        | 40.8       | 41.4       | 43.2        | 41.8        | 42.5        | 42.0  | 40.7  | 40.9  |
| Total Gasoline          | 260.8      | 256.6       | 246.5       | 221.3       | 213.9      | 218.5      | 225.9       | 226.9       | 233.6       | 234.4 | 230.0 | 235.4 |
| East Coast (PAD 1)      | 71.9       | 69.7        | 66.8        | 61.4        | 63.6       | 65.5       | 63.1        | 62.5        | 63.5        | 63.5  | 66.1  | 67.5  |
| Midwest (PAD 2)         | 77.7       | 78.4        | 74.0        | 62.7        | 56.1       | 56.4       | 62.8        | 65.8        | 69.3        | 67.0  | 64.0  | 65.3  |
| Gulf Coast (PAD 3)      | 70.2       | 69.3        | 68.0        | 63.2        | 63.5       | 64.9       | 66.0        | 65.2        | 67.5        | 69.8  | 65.5  | 66.2  |
| Rocky Mountain (PAD 4)  | 9.6        | 9.9         | 10.1        | 9.0         | 7.7        | 6.5        | 5.8         | 5.5         | 5.7         | 6.5   | 7.1   | 8.5   |
| West Coast (PAD 5)      | 31.4       | 29.3        | 27.6        | 25.0        | 23.2       | 25.3       | 28.1        | 27.9        | 27.7        | 27.6  | 27.2  | 27.9  |
| <b>1983<sup>1</sup></b> |            |             |             |             |            |            |             |             |             |       |       |       |
| Finished Gasoline       | 208.3      | 207.4       | 183.7       | 182.9       | 186.8      | 183.3      | 189.8       |             |             |       |       |       |
| Blending Components     | 42.6       | 43.8        | 40.3        | 37.9        | 37.8       | 39.9       | 40.8        |             |             |       |       |       |
| Total Gasoline          | 250.9      | 251.1       | 224.0       | 220.8       | 224.6      | 223.2      | 230.6       |             |             |       |       |       |
| East Coast (PAD 1)      | 69.9       | 66.0        | 55.4        | 60.8        | 63.6       | 61.3       | 64.3        |             |             |       |       |       |
| Midwest (PAD 2)         | 75.3       | 77.2        | 68.3        | 65.4        | 64.6       | 63.7       | 64.6        |             |             |       |       |       |
| Gulf Coast (PAD 3)      | 65.0       | 66.6        | 66.3        | 62.7        | 64.0       | 64.7       | 65.1        |             |             |       |       |       |
| Rocky Mountain (PAD 4)  | 9.4        | 9.4         | 8.3         | 7.9         | 7.4        | 6.7        | 6.4         |             |             |       |       |       |
| West Coast (PAD 5)      | 31.3       | 31.9        | 25.8        | 24.1        | 25.0       | 26.9       | 30.2        |             |             |       |       |       |
| <b>Week Ending:</b>     |            |             |             |             |            |            |             |             |             |       |       |       |
| <b>1983<sup>1</sup></b> | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |       |       |       |
| Finished Gasoline       | 188.4      | 188.3       | 185.7       | 184.5       | 184.1      | 188.6      | 190.8       | 190.7       | 191.8       |       |       |       |
| Blending Components     | 38.4       | 39.5        | 39.1        | 39.2        | 38.9       | 38.9       | 37.8        | 37.7        | 37.3        |       |       |       |
| Total Gasoline          | 226.8      | 227.7       | 224.8       | 223.7       | 223.0      | 227.4      | 228.6       | 228.4       | 229.1       |       |       |       |
| East Coast (PAD 1)      | 63.6       | 64.3        | 62.6        | 61.9        | 61.6       | 63.3       | 63.8        | 64.5        | 65.1        |       |       |       |
| Midwest (PAD 2)         | 63.6       | 62.9        | 62.9        | 62.8        | 64.4       | 65.0       | 65.9        | 65.6        | 64.6        |       |       |       |
| Gulf Coast (PAD 3)      | 63.4       | 63.5        | 62.8        | 61.9        | 60.7       | 62.5       | 62.1        | 62.7        | 64.0        |       |       |       |
| Rocky Mountain (PAD 4)  | 6.1        | 5.9         | 5.8         | 5.7         | 5.8        | 6.1        | 5.7         | 5.8         | 6.3         |       |       |       |
| West Coast (PAD 5)      | 30.2       | 31.2        | 30.7        | 31.4        | 30.5       | 30.5       | 31.1        | 29.8        | 29.1        |       |       |       |

<sup>1</sup> See Appendix D for explanation of the 1983 new stock basis.

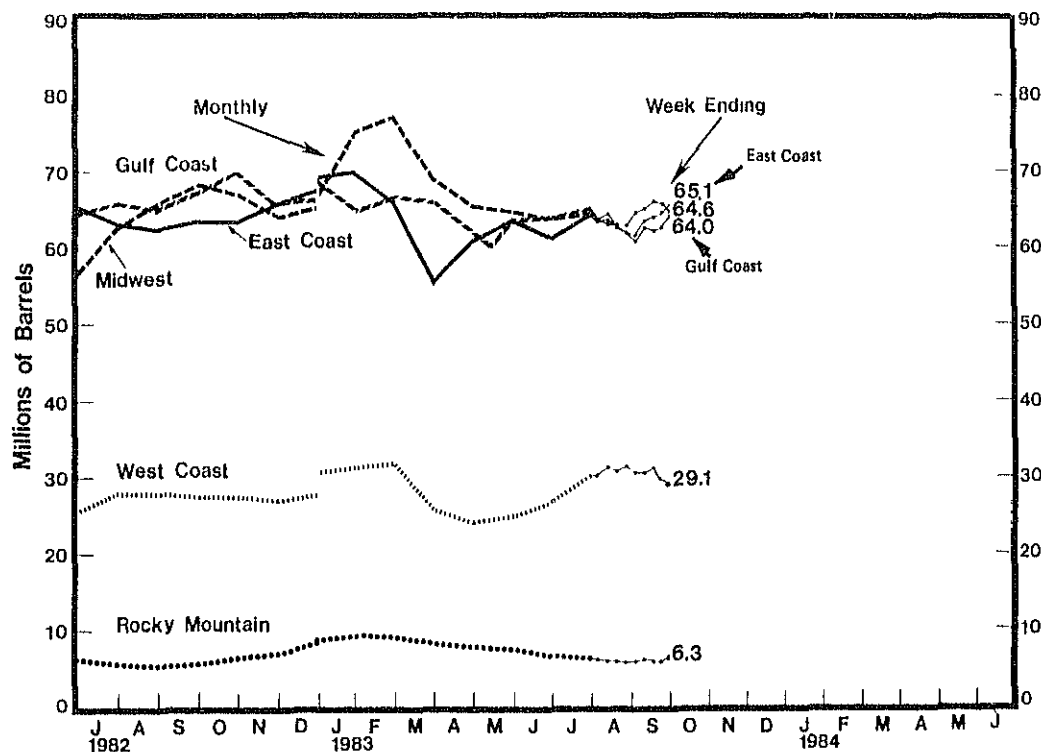
Note. PAD district data may not add to total due to independent rounding.

Sources. • Monthly Data: 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly,"  
• Week-Ending Stocks: Estimates based on EIA weekly data.

# Stocks of Motor Gasoline, U.S. Total<sup>1</sup> (Millions of Barrels)



## Stocks of Motor Gasoline by Petroleum Administration for Defense District<sup>1</sup> (Millions of Barrels)



1 See Appendix D for further explanation of the 1983 new stock basis  
2 Average level and width of average range for total motor gasoline are based on three years of monthly data July 1980-June 1983. The seasonal pattern is based on six years of monthly data 1976 and 1978-1982. See Appendix B for further explanation.  
3 The National Petroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for total motor gasoline to be 210 million barrels. See Appendix B for further explanation. The 1979 study is currently under review.  
Source: • Ranges and Seasonal Patterns 1976-1980, EIA, "Petroleum Statement, Annual (Final Summary)," 1981-1982, EIA, "Petroleum Supply Annual"  
• Monthly Data 1982, EIA, "Petroleum Supply Annual," 1983, "Petroleum Supply Monthly"  
• Week Ending Stocks. Estimates based on EIA weekly data

Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District  
(Millions of Barrels)

| Year/District           | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct   | Nov   | Dec   |
|-------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-------|-------|-------|
| <b>1981</b>             |            |             |             |             |            |            |             |             |             |       |       |       |
| Total U.S.              | 179.4      | 172.5       | 164.3       | 164.6       | 171.8      | 179.9      | 186.3       | 200.2       | 207.3       | 201.2 | 200.1 | 191.5 |
| East Coast (PAD 1)      | 71.9       | 69.8        | 64.7        | 64.4        | 68.2       | 73.8       | 81.3        | 86.3        | 92.0        | 94.8  | 96.0  | 87.4  |
| Midwest (PAD 2)         | 57.7       | 56.1        | 52.5        | 52.4        | 50.5       | 48.7       | 49.8        | 54.1        | 54.3        | 51.0  | 51.6  | 50.0  |
| Gulf Coast (PAD 3)      | 34.0       | 32.3        | 32.4        | 34.7        | 39.2       | 42.9       | 40.7        | 44.5        | 44.8        | 39.8  | 36.7  | 35.5  |
| Rocky Mountain (PAD 4)  | 3.4        | 3.3         | 3.3         | 2.9         | 3.2        | 3.4        | 3.7         | 3.8         | 3.6         | 3.3   | 3.6   | 3.9   |
| West Coast (PAD 5)      | 12.4       | 11.1        | 11.4        | 10.3        | 10.7       | 11.1       | 10.8        | 11.4        | 12.5        | 12.3  | 12.3  | 14.7  |
| <b>1982</b>             |            |             |             |             |            |            |             |             |             |       |       |       |
| Total U.S.              | 164.4      | 147.4       | 126.3       | 108.0       | 113.6      | 123.7      | 148.1       | 158.7       | 161.2       | 170.1 | 185.6 | 178.6 |
| East Coast (PAD 1)      | 68.3       | 60.3        | 44.7        | 35.0        | 39.1       | 44.2       | 57.4        | 63.9        | 68.0        | 75.7  | 88.7  | 80.6  |
| Midwest (PAD 2)         | 46.7       | 43.1        | 39.5        | 30.8        | 30.8       | 33.7       | 42.6        | 45.5        | 45.6        | 44.2  | 45.3  | 47.0  |
| Gulf Coast (PAD 3)      | 31.0       | 26.8        | 27.6        | 28.5        | 31.1       | 32.6       | 34.1        | 35.6        | 34.0        | 37.0  | 36.9  | 34.2  |
| Rocky Mountain (PAD 4)  | 4.1        | 3.9         | 3.7         | 3.1         | 2.8        | 3.0        | 3.4         | 3.5         | 3.5         | 3.5   | 3.5   | 4.0   |
| West Coast (PAD 5)      | 14.2       | 13.3        | 10.8        | 10.5        | 9.8        | 10.2       | 10.6        | 10.2        | 10.1        | 9.6   | 11.3  | 12.7  |
| <b>1983<sup>1</sup></b> |            |             |             |             |            |            |             |             |             |       |       |       |
| Total U.S.              | 168.2      | 147.4       | 118.7       | 103.2       | 109.2      | 113.8      | 131.0       |             |             |       |       |       |
| East Coast (PAD 1)      | 71.1       | 55.3        | 38.1        | 31.8        | 37.2       | 41.1       | 50.9        |             |             |       |       |       |
| Midwest (PAD 2)         | 47.2       | 46.4        | 39.0        | 33.3        | 30.4       | 29.6       | 33.6        |             |             |       |       |       |
| Gulf Coast (PAD 3)      | 31.7       | 28.9        | 27.2        | 26.0        | 28.8       | 29.7       | 32.5        |             |             |       |       |       |
| Rocky Mountain (PAD 4)  | 4.1        | 4.0         | 3.3         | 2.8         | 2.9        | 2.8        | 3.0         |             |             |       |       |       |
| West Coast (PAD 5)      | 14.1       | 12.8        | 11.1        | 9.4         | 9.9        | 10.6       | 11.0        |             |             |       |       |       |
| <b>Week Ending:</b>     |            |             |             |             |            |            |             |             |             |       |       |       |
| <b>1983<sup>1</sup></b> | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |       |       |       |
| Total U.S.              | 131.4      | 134.3       | 137.6       | 138.5       | 142.8      | 146.7      | 150.4       | 153.8       | 153.5       |       |       |       |
| East Coast (PAD 1)      | 51.3       | 52.9        | 55.6        | 58.0        | 60.4       | 61.4       | 64.1        | 64.8        | 65.6        |       |       |       |
| Midwest (PAD 2)         | 33.6       | 34.3        | 34.0        | 34.5        | 35.8       | 36.6       | 36.8        | 38.3        | 38.6        |       |       |       |
| Gulf Coast (PAD 3)      | 32.3       | 33.3        | 34.3        | 32.6        | 32.9       | 35.1       | 35.8        | 36.8        | 35.7        |       |       |       |
| Rocky Mountain (PAD 4)  | 2.9        | 2.7         | 2.8         | 2.8         | 2.8        | 2.7        | 2.6         | 2.6         | 2.6         |       |       |       |
| West Coast (PAD 5)      | 11.4       | 11.0        | 11.0        | 10.7        | 10.8       | 10.9       | 11.1        | 11.3        | 11.1        |       |       |       |

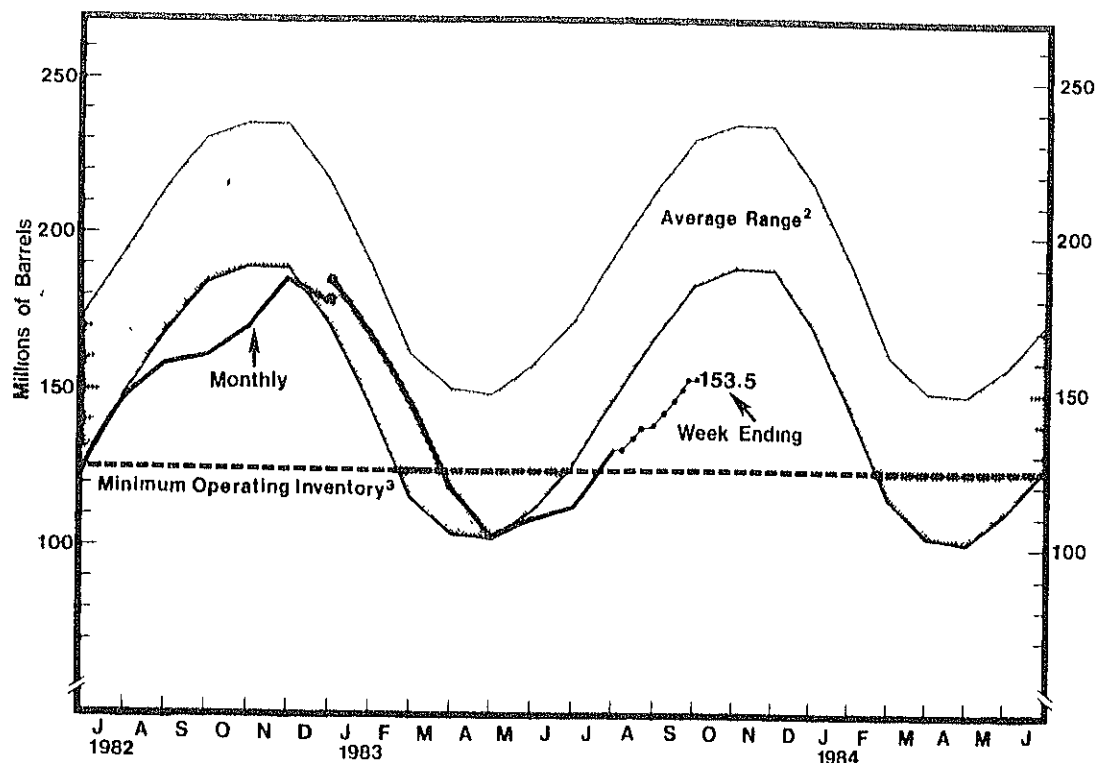
<sup>1</sup> See Appendix D for explanation of the 1983 new stock basis

Note: PAD district data may not add to total due to independent rounding

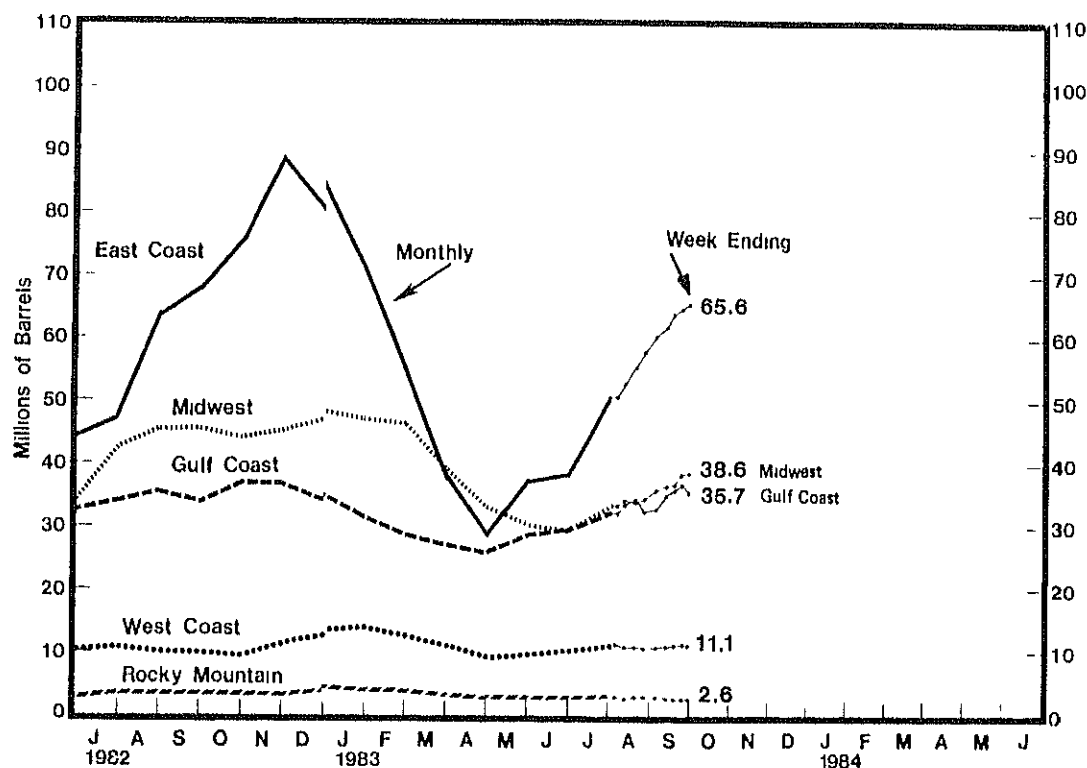
Source: • Monthly Data 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly,"

• Week-Ending Stocks Estimates based on EIA weekly data.

# Stocks of Distillate Fuel Oil, U.S. Total<sup>1</sup> (Millions of Barrels)



## Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District<sup>1</sup> (Millions of Barrels)



<sup>1</sup> See Appendix D for explanation of the 1983 new stock basis.

<sup>2</sup> Average level and width of average range are based on three years of monthly data: July 1980–June 1983. The seasonal pattern is based on seven years of monthly data: January 1976–December 1982. See Appendix B for further explanation.

<sup>3</sup> The National Petroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In the 1979 study, they defined this inventory level for distillate fuel oil to be 125 million barrels. See Appendix B for further explanation. The 1979 study is currently under review.

Source: o Ranges and Seasonal Patterns 1976–1980, EIA, "Petroleum Statement Annual (Final Summary)," 1981–1982, EIA, "Petroleum Supply Annual "

o Monthly data, 1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly "

o Week Ending Stocks: Estimates based on EIA weekly data.

Stocks of Residual Fuel Oil by Petroleum Administration for Defense District  
(Millions of Barrels)

| Year/District           | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct  | Nov  | Dec  |
|-------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|------|------|------|
| <b>1981</b>             |            |             |             |             |            |            |             |             |             |      |      |      |
| Total U.S.              | 82.1       | 77.9        | 74.8        | 72.9        | 78.1       | 69.4       | 69.3        | 74.9        | 80.2        | 79.9 | 81.4 | 78.0 |
| East Coast (PAD 1)      | 39.0       | 38.5        | 37.3        | 36.3        | 38.2       | 33.6       | 33.0        | 34.4        | 40.0        | 40.4 | 43.0 | 40.1 |
| Midwest (PAD 2)         | 9.2        | 9.0         | 7.9         | 7.3         | 7.1        | 7.0        | 7.7         | 8.1         | 8.5         | 8.0  | 8.2  | 8.3  |
| Gulf Coast (PAD 3)      | 21.8       | 19.7        | 19.4        | 19.1        | 21.7       | 17.0       | 17.4        | 21.2        | 20.4        | 20.4 | 19.7 | 18.7 |
| Rocky Mountain (PAD 4)  | 0.8        | 0.7         | 0.6         | 0.5         | 0.6        | 0.6        | 0.5         | 0.6         | 0.7         | 0.7  | 0.7  | 0.7  |
| West Coast (PAD 5)      | 11.4       | 10.1        | 9.7         | 9.7         | 10.5       | 11.2       | 10.7        | 10.7        | 10.7        | 10.4 | 9.8  | 10.2 |
| <b>1982</b>             |            |             |             |             |            |            |             |             |             |      |      |      |
| Total U.S.              | 68.7       | 58.5        | 58.1        | 53.6        | 59.0       | 60.7       | 58.9        | 52.6        | 61.8        | 63.6 | 66.4 | 66.2 |
| East Coast (PAD 1)      | 32.2       | 25.0        | 25.0        | 23.4        | 28.3       | 28.2       | 27.1        | 23.1        | 29.0        | 32.8 | 36.4 | 34.7 |
| Midwest (PAD 2)         | 7.7        | 7.3         | 7.0         | 6.2         | 6.0        | 5.6        | 5.7         | 5.2         | 5.7         | 5.1  | 5.0  | 5.2  |
| Gulf Coast (PAD 3)      | 17.7       | 14.7        | 14.7        | 13.5        | 15.0       | 17.1       | 16.4        | 15.5        | 16.2        | 15.6 | 16.1 | 16.3 |
| Rocky Mountain (PAD 4)  | 0.6        | 0.7         | 0.6         | 0.5         | 0.5        | 0.5        | 0.5         | 0.4         | 0.5         | 0.5  | 0.5  | 0.6  |
| West Coast (PAD 5)      | 10.3       | 10.8        | 10.9        | 10.0        | 9.2        | 9.3        | 9.3         | 8.4         | 10.4        | 9.6  | 8.4  | 9.3  |
| <b>1983<sup>1</sup></b> |            |             |             |             |            |            |             |             |             |      |      |      |
| Total U.S.              | 60.7       | 53.1        | 46.3        | 46.6        | 50.9       | 50.1       | 51.9        |             |             |      |      |      |
| East Coast (PAD 1)      | 29.9       | 25.1        | 20.6        | 20.3        | 23.8       | 24.0       | 25.3        |             |             |      |      |      |
| Midwest (PAD 2)         | 5.0        | 4.5         | 3.6         | 3.4         | 3.5        | 3.7        | 3.7         |             |             |      |      |      |
| Gulf Coast (PAD 3)      | 16.3       | 14.0        | 12.8        | 13.4        | 14.5       | 13.5       | 13.8        |             |             |      |      |      |
| Rocky Mountain (PAD 4)  | 0.5        | 0.4         | 0.4         | 0.5         | 0.5        | 0.4        | 0.5         |             |             |      |      |      |
| West Coast (PAD 5)      | 9.0        | 9.1         | 8.9         | 9.0         | 8.5        | 8.4        | 8.6         |             |             |      |      |      |
| <b>Week Ending:</b>     |            |             |             |             |            |            |             |             |             |      |      |      |
| <b>1983<sup>1</sup></b> | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |      |      |      |
| Total U.S.              | 48.1       | 46.5        | 45.2        | 44.9        | 46.3       | 44.8       | 46.1        | 48.8        | 46.8        |      |      |      |
| East Coast (PAD 1)      | 22.0       | 20.8        | 19.8        | 20.3        | 21.7       | 20.1       | 20.9        | 22.1        | 20.1        |      |      |      |
| Midwest (PAD 2)         | 3.7        | 3.7         | 3.7         | 3.7         | 3.8        | 3.6        | 3.5         | 3.9         | 4.3         |      |      |      |
| Gulf Coast (PAD 3)      | 14.1       | 13.8        | 13.6        | 14.0        | 13.5       | 13.6       | 13.4        | 13.7        | 13.9        |      |      |      |
| Rocky Mountain (PAD 4)  | 0.6        | 0.6         | 0.5         | 0.5         | 0.5        | 0.5        | 0.5         | 0.5         | 0.4         |      |      |      |
| West Coast (PAD 5)      | 7.7        | 7.6         | 7.6         | 6.4         | 6.8        | 7.0        | 7.7         | 8.6         | 8.0         |      |      |      |

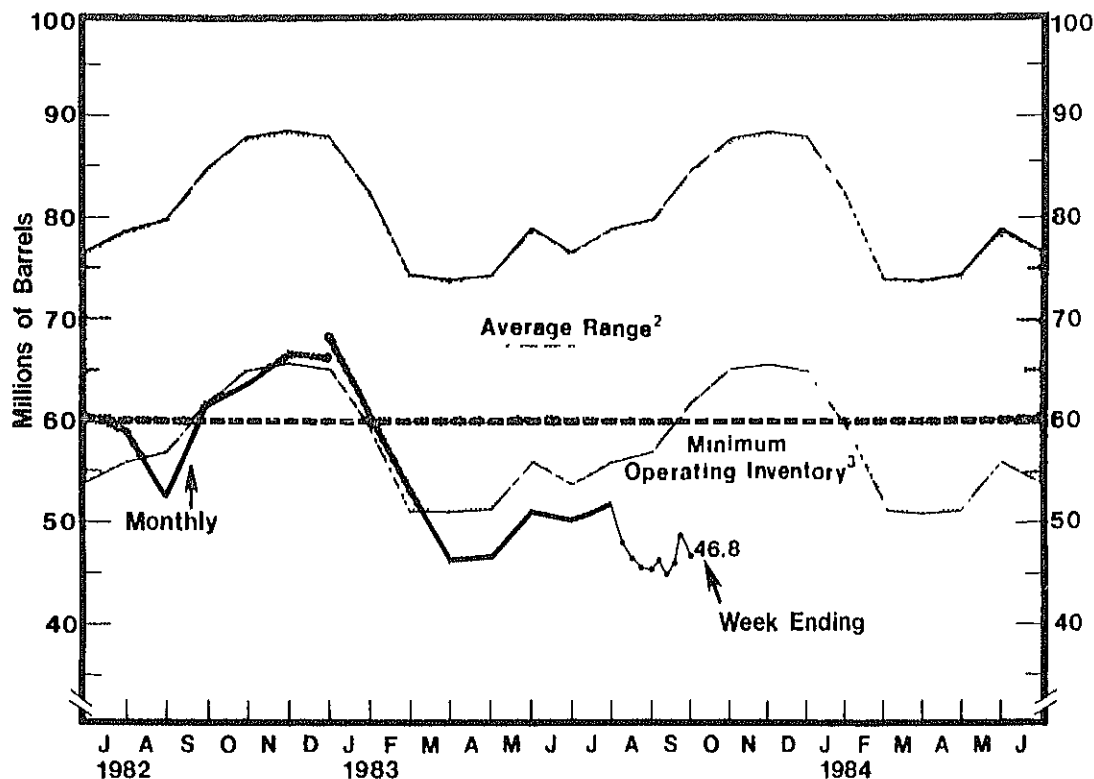
<sup>1</sup> See Appendix D for explanation of the 1983 new stock basis.

Note: PAD district data may not add to total due to independent rounding.

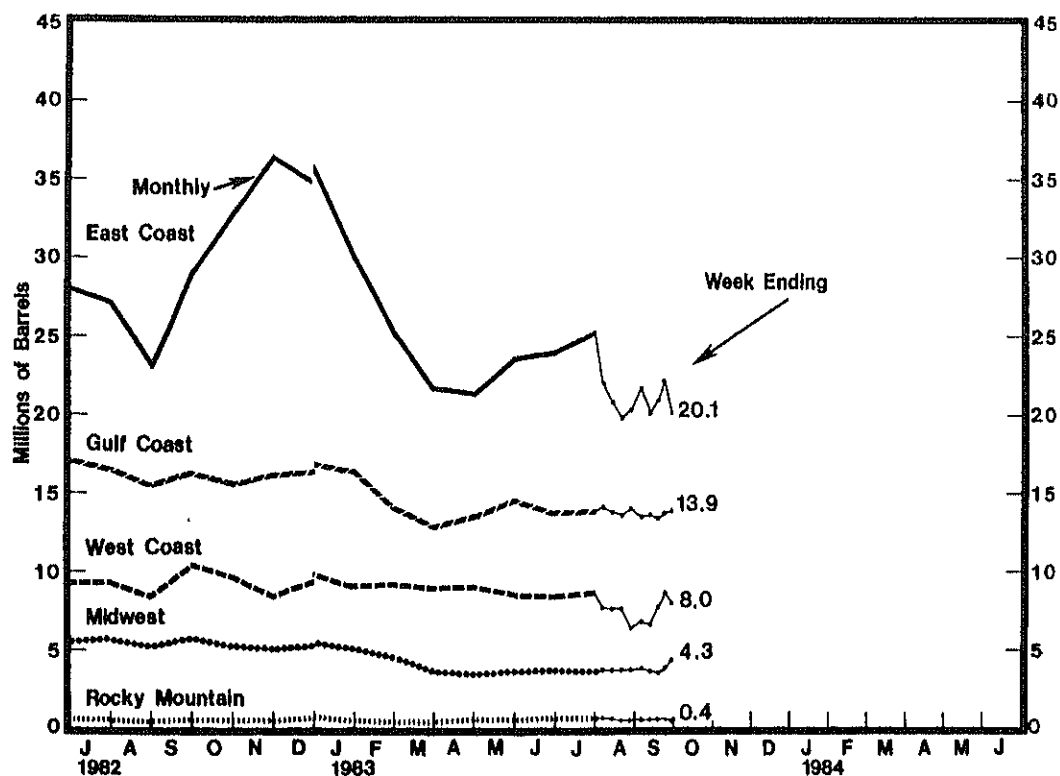
Source: • Monthly Data: 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."

• Week Ending Stocks: Estimates based on EIA weekly data.

# Stocks of Residual Fuel Oil, U.S. Total<sup>1</sup> (Millions of Barrels)



## Stocks of Residual Fuel Oil by Petroleum Administration for Defense District<sup>1</sup> (Millions of Barrels)



<sup>1</sup> See Appendix D for further explanation of the 1983 new stock basis.

<sup>2</sup> Average level and width of average range are based on three years of monthly data: July 1980–June 1983. The seasonal pattern is based on seven years of monthly data January 1976–December 1982. See Appendix B for further explanation.

<sup>3</sup> The National Petroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for residual fuel oil to be 60 million barrels. See Appendix B for further explanation. The 1979 study is currently under review.

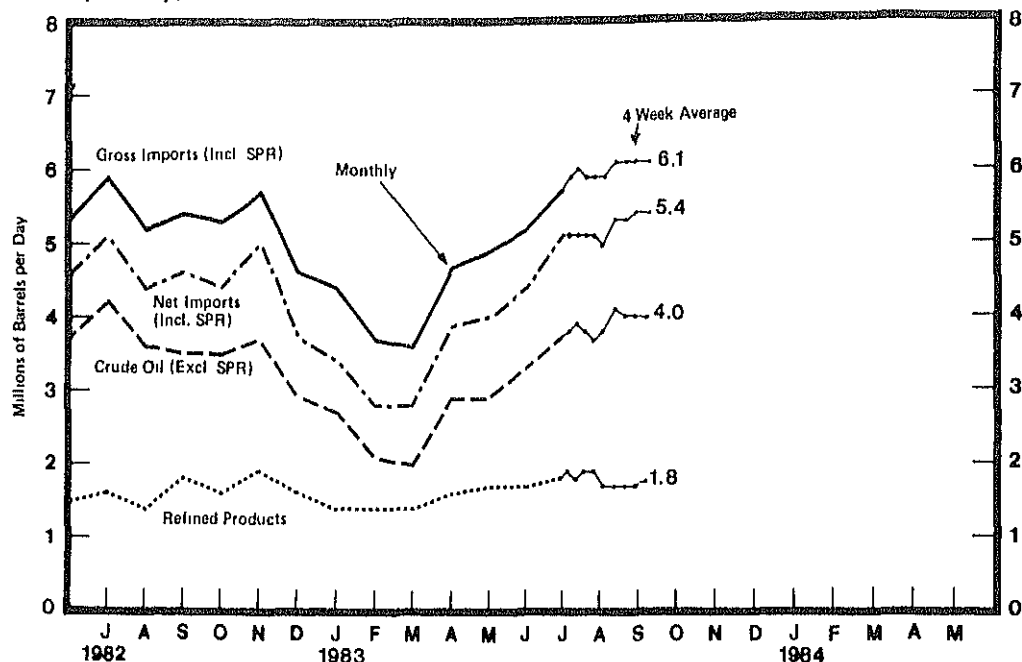
Source: • Ranges and Seasonal Patterns 1976–1980, EIA, "Petroleum Statement Annual (Final Summary)," 1981–1982, EIA, "Petroleum Supply Annual,"

• Monthly Data: 1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."

• Week-Ending Stocks: Estimates based on EIA weekly data



**Imports of Crude Oil and Petroleum Products**  
(Millions of Barrels per Day)



| Year/Product                                | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct | Nov | Dec |
|---|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-----|-----|-----|
| <b>1981</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Crude Oil (Excl. SPR)                       | 4.8        | 4.8         | 4.4         | 4.1         | 3.9        | 3.7        | 4.1         | 3.9         | 4.3         | 3.9 | 3.8 | 4.0 |
| SPR   | 0.1        | 0.1         | 0.1         | 0.3         | 0.4        | 0.3        | 0.2         | 0.3         | 0.4         | 0.5 | 0.3 | 0.2 |
| Refined Products                            | 1.9        | 1.9         | 1.5         | 1.3         | 1.5        | 1.4        | 1.5         | 1.6         | 1.6         | 1.6 | 1.7 | 1.7 |
| Gross Imports (Incl. SPR)                   | 6.8        | 6.8         | 6.0         | 5.7         | 5.8        | 5.4        | 5.8         | 5.8         | 6.4         | 6.0 | 5.7 | 5.8 |
| Total Exports <sup>1</sup>                  | 0.6        | 0.6         | 0.6         | 0.6         | 0.6        | 0.4        | 0.6         | 0.6         | 0.5         | 0.7 | 0.7 | 0.7 |
| Net Imports (Incl. SPR)                     | 6.3        | 6.2         | 5.4         | 5.1         | 5.2        | 5.0        | 5.2         | 5.1         | 5.8         | 5.2 | 5.0 | 5.2 |
| <b>1982</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Crude Oil (Excl. SPR)                       | 3.5        | 2.8         | 2.7         | 2.7         | 3.1        | 3.7        | 4.2         | 3.6         | 3.5         | 3.5 | 3.7 | 2.9 |
| SPR   | 0.2        | 0.2         | 0.2         | 0.2         | 0.2        | 0.1        | 0.1         | 0.2         | 0.1         | 0.2 | 0.2 | 0.1 |
| Refined Products                            | 1.6        | 1.8         | 1.6         | 1.5         | 1.5        | 1.5        | 1.6         | 1.4         | 1.8         | 1.6 | 1.9 | 1.6 |
| Gross Imports (Incl. SPR)                   | 5.3        | 4.8         | 4.5         | 4.4         | 4.8        | 5.3        | 5.9         | 5.2         | 5.4         | 5.3 | 5.7 | 4.6 |
| Total Exports <sup>1</sup>                  | 0.8        | 0.8         | 0.9         | 0.8         | 0.8        | 0.7        | 0.7         | 0.9         | 0.8         | 0.9 | 0.8 | 0.9 |
| Net Imports (Incl. SPR)                     | 4.5        | 4.0         | 3.6         | 3.6         | 4.0        | 4.6        | 5.1         | 4.4         | 4.6         | 4.4 | 5.0 | 3.7 |
| <b>1983</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Crude Oil (Excl. SPR)                       | 2.7        | 2.1         | 2.0         | 2.9         | 2.9        | 3.3        | 3.6         |             |             |     |     |     |
| SPR   | 0.2        | 0.2         | 0.2         | 0.2         | 0.3        | 0.2        | 0.3         |             |             |     |     |     |
| Refined Products                            | 1.4        | 1.4         | 1.4         | 1.6         | 1.7        | 1.7        | 1.8         |             |             |     |     |     |
| Gross Imports (Incl. SPR)                   | 4.4        | 3.7         | 3.6         | 4.7         | 4.9        | 5.2        | 5.7         |             |             |     |     |     |
| Total Exports <sup>1</sup>                  | 1.0        | 0.9         | 0.8         | 0.8         | 0.8        | 0.8        | 0.6         |             |             |     |     |     |
| Net Imports (Incl. SPR)                     | 3.4        | 2.8         | 2.8         | 3.9         | 4.0        | 4.4        | 5.1         |             |             |     |     |     |
| <b>Average for Four-Week Period Ending:</b> |            |             |             |             |            |            |             |             |             |     |     |     |
| <b>1983</b>                                 | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |     |     |     |
| Crude Oil (Excl. SPR)                       | 3.8        | 3.9         | 3.8         | 3.7         | 3.8        | 4.1        | 4.0         | 4.0         | 4.0         |     |     |     |
| SPR   | 0.3        | 0.3         | 0.3         | 0.3         | 0.4        | 0.3        | 0.4         | 0.3         | 0.3         |     |     |     |
| Refined Products                            | 1.9        | 1.8         | 1.9         | 1.9         | 1.7        | 1.7        | 1.7         | 1.7         | 1.8         |     |     |     |
| Gross Imports (Incl. SPR)                   | 5.9        | 6.0         | 5.9         | 5.9         | 5.9        | 6.1        | 6.1         | 6.1         | 6.1         |     |     |     |
| Total Exports <sup>1</sup>                  | E0.8       | E0.8        | E0.8        | E0.8        | E0.8       | E0.8       | E0.8        | E0.7        | E0.7        |     |     |     |
| Net Imports (Incl. SPR)                     | 5.1        | 5.1         | 5.1         | 5.1         | 5.0        | 5.3        | 5.3         | 5.4         | 5.4         |     |     |     |

C=Estimate based on most recent monthly data available

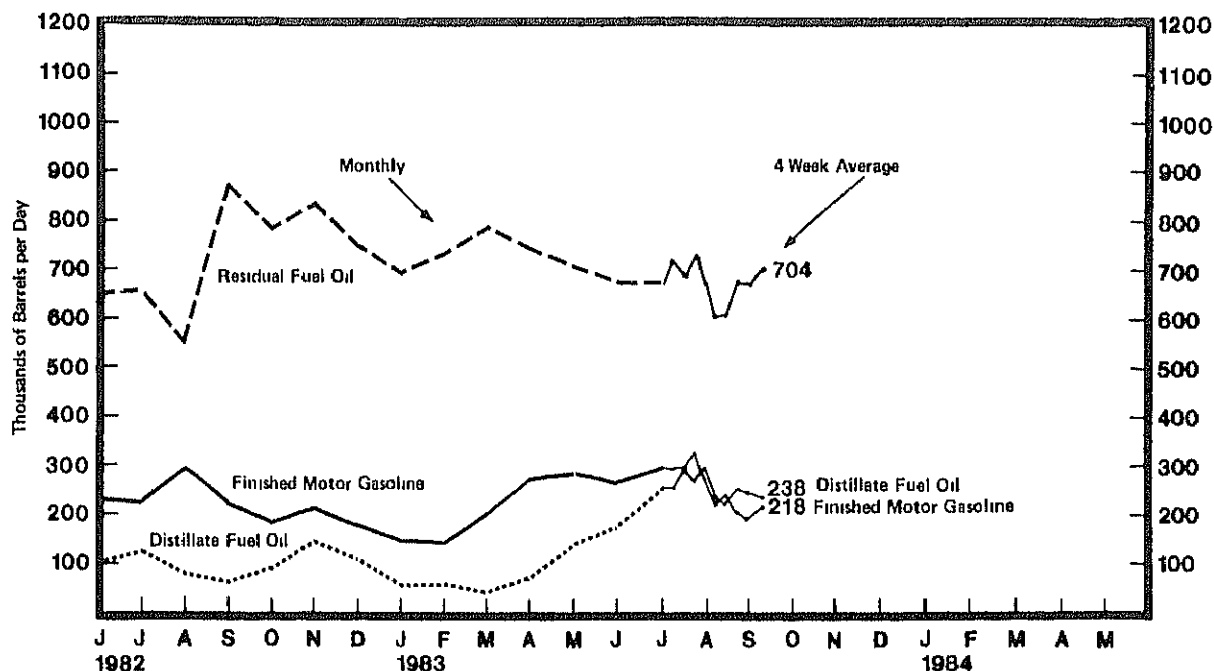
<sup>1</sup> Includes exports of crude oil and refined petroleum products. Exports of crude oil are prohibited under normal circumstances. Some crude oil is shipped to Canada in exchange on a barrel-for-barrel basis. Shipments of crude oil to Puerto Rico and the Virgin Islands are not prohibited because these territories are U.S. possessions.

Note: Detail data may not add to total due to independent rounding.

Source: • Monthly Data 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly"

• Four Week Averages Estimates based on EIA weekly data

**Imports of Petroleum Products by Product**  
(Thousands of Barrels per Day)



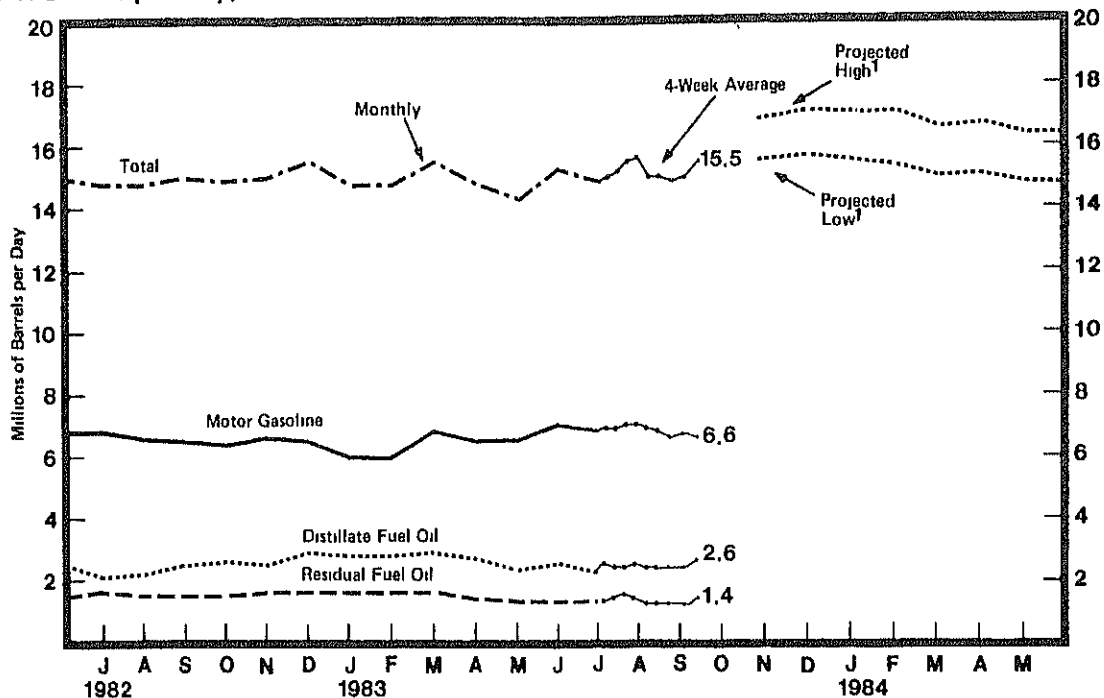
| Year/Product                                | Jan        | Feb         | Mar         | Apr         | May        | Jun        | Jul         | Aug         | Sep         | Oct | Nov | Dec |
|---|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-----|-----|-----|
| <b>1981</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Finished Motor Gasoline                     | 138        | 111         | 171         | 186         | 150        | 186        | 151         | 124         | 169         | 147 | 148 | 197 |
| Jet Fuel                                    | 15         | 38          | 76          | 55          | 47         | 68         | 35          | 47          | 46          | 14  | 9   | 7   |
| Distillate Fuel Oil                         | 273        | 325         | 147         | 116         | 179        | 225        | 179         | 174         | 129         | 119 | 124 | 95  |
| Residual Fuel Oil                           | 1,015      | 954         | 699         | 584         | 741        | 540        | 830         | 819         | 841         | 786 | 880 | 916 |
| Other <sup>1</sup>                          | 453        | 471         | 414         | 389         | 371        | 356        | 327         | 424         | 438         | 514 | 533 | 491 |
| <b>1982</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Finished Motor Gasoline                     | 128        | 133         | 183         | 185         | 182        | 230        | 225         | 291         | 223         | 185 | 211 | 178 |
| Jet Fuel                                    | 10         | 62          | 39          | 47          | 31         | 3          | 31          | 26          | 30          | 20  | 40  | 7   |
| Distillate Fuel Oil                         | 97         | 132         | 48          | 59          | 74         | 102        | 125         | 80          | 61          | 91  | 146 | 109 |
| Residual Fuel Oil                           | 831        | 956         | 912         | 788         | 742        | 652        | 657         | 550         | 872         | 783 | 836 | 747 |
| Other <sup>1</sup>                          | 573        | 533         | 427         | 449         | 474        | 504        | 604         | 445         | 592         | 557 | 650 | 564 |
| <b>1983</b>                                 |            |             |             |             |            |            |             |             |             |     |     |     |
| Finished Motor Gasoline                     | 148        | 142         | 205         | 273         | 284        | 265        | 297         |             |             |     |     |     |
| Jet Fuel                                    | 27         | 8           | 35          | 15          | 35         | 25         | 22          |             |             |     |     |     |
| Distillate Fuel Oil                         | 58         | 58          | 42          | 73          | 141        | 175        | 259         |             |             |     |     |     |
| Residual Fuel Oil                           | 691        | 632         | 686         | 743         | 709        | 676        | 682         |             |             |     |     |     |
| Other <sup>1</sup>                          | 510        | 583         | 429         | 486         | 495        | 575        | 563         |             |             |     |     |     |
| <b>Average for Four-Week Period Ending:</b> |            |             |             |             |            |            |             |             |             |     |     |     |
| <b>1983</b>                                 | <b>8/5</b> | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b> | <b>9/9</b> | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |     |     |     |
| Finished Motor Gasoline                     | 292        | 295         | 323         | 276         | 220        | 239        | 205         | 192         | 218         |     |     |     |
| Jet Fuel                                    | 19         | 13          | 12          | 20          | 37         | 34         | 56          | 64          | 58          |     |     |     |
| Distillate Fuel Oil                         | 257        | 290         | 270         | 294         | 238        | 225        | 252         | 248         | 238         |     |     |     |
| Residual Fuel Oil                           | 714        | 685         | 726         | 672         | 605        | 607        | 677         | 673         | 704         |     |     |     |
| Other <sup>1</sup>                          | 564        | 542         | 569         | 624         | 554        | 579        | 556         | 532         | 533         |     |     |     |

<sup>1</sup> Includes imports of kerosene, unfinished oils, motor gasoline blending components, liquefied petroleum gases and other oils.

Source: • Monthly Data: 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."

• Four-Week Averages: Estimates based on EIA weekly data.

**Petroleum Products Supplied**  
(Millions of Barrels per Day)



| Year/Product                                | Jan         | Feb         | Mar         | Apr         | May         | Jun         | Jul         | Aug         | Sep         | Oct         | Nov         | Dec         |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>1981</b>                                 |             |             |             |             |             |             |             |             |             |             |             |             |
| Motor Gasoline                              | 6.4         | 6.3         | 6.3         | 6.6         | 6.6         | 7.0         | 6.8         | 6.6         | 6.7         | 6.6         | 6.4         | 6.7         |
| Jet Fuel                                    | 1.1         | 1.0         | 1.1         | 1.0         | 0.9         | 1.0         | 1.1         | 1.0         | 1.0         | 0.9         | 1.0         | 1.0         |
| Distillate Fuel Oil <sup>2</sup>            | 4.1         | 3.4         | 2.9         | 2.5         | 2.4         | 2.4         | 2.4         | 2.4         | 2.5         | 2.8         | 2.9         | 3.2         |
| Residual Fuel Oil <sup>2</sup>              | 2.9         | 2.5         | 2.1         | 1.9         | 1.8         | 2.0         | 2.0         | 1.8         | 1.9         | 1.9         | 1.9         | 2.3         |
| Other                                       | 3.9         | 3.8         | 3.5         | 3.4         | 3.7         | 3.7         | 3.4         | 3.5         | 3.8         | 3.6         | 3.4         | 3.4         |
| <b>Total</b>                                | <b>18.4</b> | <b>17.0</b> | <b>15.9</b> | <b>15.4</b> | <b>15.4</b> | <b>16.1</b> | <b>15.7</b> | <b>15.3</b> | <b>15.9</b> | <b>15.8</b> | <b>15.6</b> | <b>16.6</b> |
| <b>1982</b>                                 |             |             |             |             |             |             |             |             |             |             |             |             |
| Motor Gasoline                              | 6.0         | 6.2         | 6.5         | 6.9         | 6.7         | 6.8         | 6.8         | 6.6         | 6.5         | 6.4         | 6.6         | 6.5         |
| Jet Fuel                                    | 1.0         | 1.1         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.1         | 1.1         |
| Distillate Fuel Oil <sup>2</sup>            | 3.5         | 3.1         | 2.9         | 3.0         | 2.4         | 2.5         | 2.1         | 2.2         | 2.5         | 2.6         | 2.5         | 2.9         |
| Residual Fuel Oil <sup>2</sup>              | 2.2         | 2.3         | 1.9         | 1.9         | 1.6         | 1.5         | 1.6         | 1.5         | 1.5         | 1.5         | 1.6         | 1.6         |
| Other                                       | 3.5         | 3.3         | 3.3         | 3.2         | 3.2         | 3.2         | 3.4         | 3.5         | 3.5         | 3.4         | 3.3         | 3.4         |
| <b>Total</b>                                | <b>16.1</b> | <b>16.0</b> | <b>15.6</b> | <b>16.0</b> | <b>14.8</b> | <b>15.0</b> | <b>14.8</b> | <b>14.8</b> | <b>15.0</b> | <b>14.9</b> | <b>15.0</b> | <b>15.5</b> |
| <b>1983</b>                                 |             |             |             |             |             |             |             |             |             |             |             |             |
| Motor Gasoline                              | 6.0         | 6.0         | 6.8         | 6.5         | 6.5         | 7.0         | 6.8         |             |             |             |             |             |
| Jet Fuel                                    | 0.9         | 1.0         | 1.0         | 1.1         | 1.0         | 1.1         | 1.0         |             |             |             |             |             |
| Distillate Fuel Oil <sup>2</sup>            | 2.8         | 2.8         | 2.9         | 2.7         | 2.3         | 2.5         | 2.2         |             |             |             |             |             |
| Residual Fuel Oil <sup>2</sup>              | 1.6         | 1.6         | 1.6         | 1.4         | 1.3         | 1.3         | 1.3         |             |             |             |             |             |
| Other                                       | 3.5         | 3.3         | 3.2         | 3.1         | 3.1         | 3.4         | 3.6         |             |             |             |             |             |
| <b>Total</b>                                | <b>14.8</b> | <b>14.8</b> | <b>15.5</b> | <b>14.8</b> | <b>14.3</b> | <b>15.3</b> | <b>14.9</b> |             |             |             |             |             |
| <b>Average for Four-Week Period Ending:</b> |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>1983</b>                                 | <b>8/5</b>  | <b>8/12</b> | <b>8/19</b> | <b>8/26</b> | <b>9/2</b>  | <b>9/9</b>  | <b>9/16</b> | <b>9/23</b> | <b>9/30</b> |             |             |             |
| Motor Gasoline                              | 6.9         | 6.9         | 7.0         | 7.0         | 6.9         | 6.8         | 6.6         | 6.7         | 6.6         |             |             |             |
| Jet Fuel                                    | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         |             |             |             |
| Distillate Fuel Oil <sup>2</sup>            | 2.5         | 2.4         | 2.4         | 2.5         | 2.4         | 2.4         | 2.4         | 2.4         | 2.6         |             |             |             |
| Residual Fuel Oil <sup>2</sup>              | 1.3         | 1.4         | 1.5         | 1.4         | 1.2         | 1.2         | 1.2         | 1.2         | 1.4         |             |             |             |
| Other                                       | 3.4         | 3.3         | 3.6         | 3.6         | 3.4         | 3.5         | 3.5         | 3.7         | 3.8         |             |             |             |
| <b>Total</b>                                | <b>15.0</b> | <b>15.2</b> | <b>15.5</b> | <b>15.6</b> | <b>15.0</b> | <b>15.0</b> | <b>14.9</b> | <b>15.0</b> | <b>15.5</b> |             |             |             |

ected. See Appendix C for explanation of derivation of values

inning in 1983, crude oil burned as residual fuel oil or distillate fuel oil is no longer reported to EIA and therefore is not included in 1983 product supplied calculations for these fuels. not supplied series for distillate and residual fuel oil for 1981 and 1982 shown on this page are the values published in 1981 and 1982 EIA publications and include crude oil about 48 thousand barrels per day for residual fuel oil and 10 thousand barrels per day for distillate fuel oil). See Appendix D for further explanation

Detail data may not add to total due to independent rounding.

1. • Monthly Data, 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."

• Four Week Averages Estimates based on EIA weekly data.

• Projections: EIA, Office of Energy Markets and End Use (May 1983).

**Average Retail Selling Prices  
Motor Gasoline and Residential Heating Oil  
(Cents per Gallon, Including Taxes)<sup>1</sup>**

| Year/Product                               | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug   | Sep   | Oct   | Nov   | Dec   |
|--|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| <b>1981</b>                                |       |       |       |       |       |        |        |       |       |       |       |       |
| <b>Motor Gasoline</b>                      |       |       |       |       |       |        |        |       |       |       |       |       |
| Leaded Premium                             | 133.8 | 141.0 | 144.9 | 145.1 | 144.7 | 144.6  | 144.6  | 144.4 | 145.6 | 145.7 | 146.2 | 146.0 |
| Leaded Regular                             | 123.8 | 132.1 | 135.2 | 134.4 | 133.3 | 132.4  | 131.5  | 131.0 | 130.5 | 129.9 | 129.7 | 129.3 |
| Unleaded Regular                           | 129.8 | 138.2 | 141.7 | 141.2 | 140.0 | 139.1  | 138.2  | 137.6 | 137.6 | 137.1 | 136.9 | 136.5 |
| All-types                                  | 126.9 | 135.3 | 138.8 | 138.1 | 137.0 | 136.2  | 135.3  | 134.8 | 135.8 | 135.3 | 135.1 | 134.8 |
| <b>Residential Heating Oil</b>             | 114.4 | 123.4 | 125.5 | 123.9 | 122.7 | 120.9  | 121.0  | 119.4 | 119.7 | 118.8 | 120.8 | 122.0 |
| <b>1982</b>                                |       |       |       |       |       |        |        |       |       |       |       |       |
| <b>Motor Gasoline</b>                      |       |       |       |       |       |        |        |       |       |       |       |       |
| Leaded Premium                             | 145.6 | 143.8 | 140.7 | 136.8 | 137.9 | 140.8  | 145.0  | 145.8 | 144.1 | 141.3 | 141.2 | 137.2 |
| Leaded Regular                             | 128.5 | 126.0 | 120.6 | 114.8 | 116.6 | 124.2  | 126.3  | 125.4 | 123.6 | 121.9 | 120.7 | 118.1 |
| Unleaded Regular                           | 135.8 | 133.4 | 128.4 | 122.5 | 123.7 | 130.9  | 133.1  | 132.3 | 130.8 | 129.5 | 128.3 | 126.0 |
| All-types                                  | 134.1 | 131.8 | 126.8 | 121.0 | 122.4 | 129.6  | 131.8  | 131.0 | 129.5 | 128.0 | 126.8 | 124.4 |
| <b>Residential Heating Oil</b>             | 122.0 | 120.7 | 115.3 | 113.2 | 114.3 | 116.2  | 115.8  | 115.9 | 115.2 | 119.6 | 121.6 | 119.7 |
| <b>1983</b>                                |       |       |       |       |       |        |        |       |       |       |       |       |
| <b>Motor Gasoline</b>                      |       |       |       |       |       |        |        |       |       |       |       |       |
| Leaded Premium                             | 135.3 | 131.8 | 127.4 | 132.1 | 137.6 | 142.9  | 144.6  | 143.7 |       |       |       |       |
| Leaded Regular                             | 114.6 | 109.9 | 106.4 | 113.1 | 117.7 | 119.7  | 120.7  | 120.3 |       |       |       |       |
| Unleaded Regular                           | 122.8 | 118.7 | 115.1 | 121.5 | 125.9 | 127.7  | 128.8  | 128.5 |       |       |       |       |
| All-Types                                  | 121.3 | 117.0 | 113.5 | 119.8 | 124.3 | 126.1  | 127.2  | 126.9 |       |       |       |       |
| <b>Residential Heating Oil<sup>1</sup></b> | 114.7 | 111.4 | 104.9 | 103.5 | 104.8 | R106.0 | P105.4 |       |       |       |       |       |

R=EIA revision.  
P=Preliminary.

<sup>1</sup> Beginning in January 1983, residential heating oil prices do not include taxes.

**Note:** Motor gasoline data include prices from self-service stations. Beginning with September 1981, the Bureau of Labor Statistics has changed the weights used in the calculation of average motor gasoline prices. In the "all types" category gasoline is now included, and unleaded premium is weighted more heavily.

**Source:** • Motor Gasoline—Bureau of Labor Statistics. See glossary for descriptions of survey.

• Residential Heating Oil—1981-1982: Form EIA-9A, "No. 2 Distillate Price Monitoring Report."

1983: Forms EIA-782A, "Monthly Petroleum Product Sales Report," and EIA-782B, "Monthly No. 2 Distillate Sales Report."

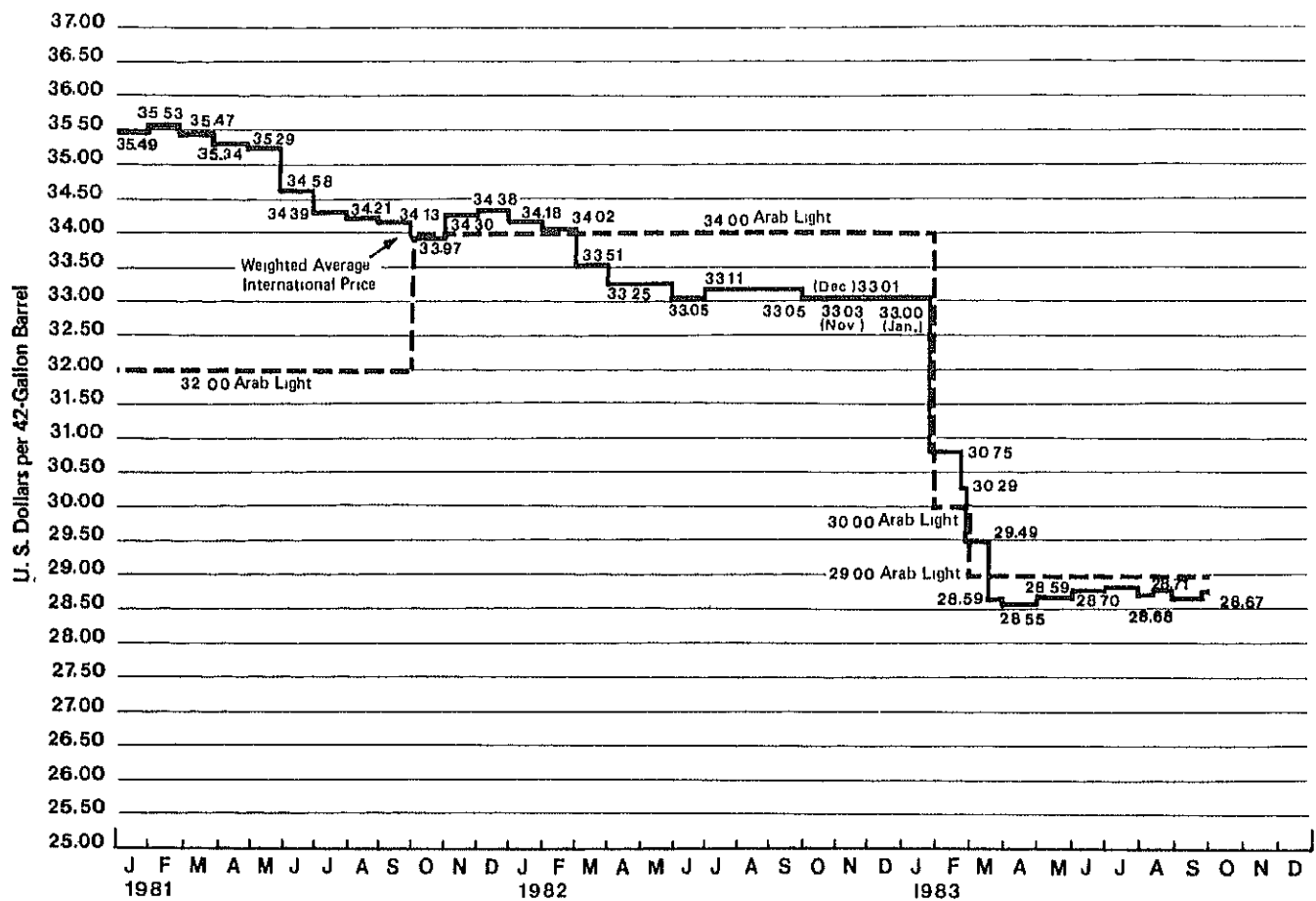
**Refiner Acquisition Cost of Crude Oil  
(Dollars per Barrel)**

| Year/Type        | Jan   | Feb   | Mar   | Apr   | May   | Jun   | July   | Aug   | Sep   | Oct   | Nov   | Dec   |
|------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| <b>1981</b>      |       |       |       |       |       |       |        |       |       |       |       |       |
| <b>Domestic</b>  | 32.71 | 36.27 | 36.97 | 35.58 | 35.21 | 34.20 | 33.76  | 33.79 | 33.47 | 33.48 | 33.49 | 33.51 |
| <b>Imported</b>  | 38.85 | 39.00 | 38.31 | 38.41 | 37.84 | 37.03 | 36.58  | 35.82 | 35.44 | 35.43 | 36.21 | 35.95 |
| <b>Composite</b> | 34.86 | 37.28 | 37.48 | 36.58 | 36.11 | 35.03 | 34.70  | 34.46 | 34.11 | 34.07 | 34.33 | 34.33 |
| <b>1982</b>      |       |       |       |       |       |       |        |       |       |       |       |       |
| <b>Domestic</b>  | 33.39 | 32.71 | 31.08 | 30.27 | 30.37 | 30.79 | 30.92  | 30.85 | 30.76 | 31.38 | 31.57 | 30.80 |
| <b>Imported</b>  | 35.54 | 35.48 | 34.07 | 32.82 | 32.78 | 33.79 | 33.44  | 32.95 | 33.03 | 33.28 | 33.09 | 32.85 |
| <b>Composite</b> | 33.95 | 33.40 | 31.81 | 30.83 | 31.02 | 31.74 | 31.74  | 31.45 | 31.40 | 31.98 | 32.07 | 31.29 |
| <b>1983</b>      |       |       |       |       |       |       |        |       |       |       |       |       |
| <b>Domestic</b>  | 30.55 | 29.16 | 28.69 | 28.45 | 28.68 | 28.67 | R28.74 |       |       |       |       |       |
| <b>Imported</b>  | 31.40 | 30.76 | 28.43 | 27.95 | 28.53 | 29.23 | R28.76 |       |       |       |       |       |
| <b>Composite</b> | 30.73 | 29.49 | 28.64 | 28.33 | 28.64 | 28.85 | R28.75 |       |       |       |       |       |

R=EIA Revision.

**Source:** • Form EIA-14, "Refiners Monthly Cost Report."

# World Crude Oil Prices<sup>1</sup> (Dollars per Barrel)



<sup>1</sup> Internationally traded oil only. Average price (FOB) weighted by estimated export volume.

Note: Beginning with the May 1, 1981 issue of the Weekly Petroleum Status Report, the world crude oil price is based on a revised crude list.

Additions: Saudi Arabia's Arabian Heavy, Dubai's Fateh, Egypt's Suez Blend, and Mexico's Maya. Omissions: Canadian Heavy. Replacements: Iraq's Kirkuk Blend for Iraq's Basrah Light.

The above graph shows an estimated world crude oil price based on this revised list beginning January 1, 1981.

**World Crude Oil Prices<sup>1</sup>**  
(Dollars per Barrel)

| Country                     | Type of Crude/<br>API Gravity                       | Current Price | In Effect<br>1 Jan 82 | In Effect<br>1 Jan 81 | In Effect<br>1 Jan 80 | Percent Change<br>Current Price From |                       |                        |
|-----------------------------|---|---------------|-----------------------|-----------------------|-----------------------|--------------------------------------|-----------------------|------------------------|
|                             |   |               |                       |                       |                       | In Effect<br>31 Dec 78               | In Effect<br>1 Jan 80 | In Effect<br>31 Dec 78 |
| OPEC                        |   |               |                       |                       |                       |                                      |                       |                        |
| Saudi Arabia                | Arabian Light 34 <sup>0</sup><br>(Bench mark crude) | 29 00         | 34 00                 | 32 00                 | 26 00                 | 12 70                                | 11 5                  | 128 3                  |
|                             | Saudi Berri 39 <sup>0</sup>                         | 29 52         | 35 40                 | 33 52                 | 27 52                 | 13 23                                | 7 3                   | 123 1                  |
|                             | Arabian Heavy 27 <sup>0</sup>                       | 26 00         | 31 00                 | 31 00                 | 25 00                 | 12 02                                | 4 0                   | 116 3                  |
| Abu Dhabi                   | Murban 39 <sup>0</sup>                              | 29 56         | 35 50                 | 36 56                 | 29 56                 | 13 26                                | 0                     | 122 9                  |
| Dubai                       | Fateh 32 <sup>0</sup>                               | 28 86         | 33 86                 | 35 93                 | 27 93                 | 12 64                                | 3 3                   | 128 3                  |
| Qatar                       | Dukhan 40 <sup>0</sup>                              | 29 49         | 35 45                 | 37 42                 | 29 42                 | 13 19                                | 0 2                   | 123 6                  |
| Iran                        | Iranian Light 34 <sup>0</sup>                       | 28 00         | 34 20                 | 37 00                 | 2 30 00               | 13 45                                | 6 7                   | 108 2                  |
| Iraq                        | Kirkuk 36 <sup>0</sup>                              | 29 83         | 34 93                 | 37 50                 | 29 29                 | 13 17                                | 1 8                   | 126 5                  |
| Kuwait                      | Kuwait Blend 31 <sup>0</sup>                        | 27 30         | 32 30                 | 35 50                 | 27 50                 | 12 22                                | -0 7                  | 123 4                  |
| Natural Zone                | Khafji 28 <sup>0</sup>                              | 26 03         | 31 03                 | 25 20                 | 27 20                 | 12 03                                | 4 3                   | 116 4                  |
| Algeria                     | Saharan 44 <sup>0</sup>                             | 30 50         | 37 00                 | 40 00                 | 33 00                 | 14 10                                | -7 6                  | 116 3                  |
| Nigeria                     | Bonny Light 37 <sup>0</sup>                         | 30 00         | 36 50                 | 40 00                 | 29 97                 | 15 12                                | 0 1                   | 98 4                   |
| Libya                       | Es Sider 37 <sup>0</sup>                            | 30 15         | 36 50                 | 40 78                 | 34 50                 | 13 68                                | 12 6                  | 120 4                  |
| Indonesia                   | Minas 34 <sup>0</sup>                               | 29 53         | 35 00                 | 35 00                 | 27 50                 | 13 55                                | 7 4                   | 117 9                  |
| Venezuela                   | Tia Juana 26 <sup>0</sup>                           | 27 88         | 32 88                 | 32 88                 | 25 20                 | 12 72                                | 10 6                  | 119 2                  |
| Gabon                       | Mandji 30 <sup>0</sup>                              | 29 00         | 34 00                 | 35 00                 | 28 00                 | 12 59                                | 3 6                   | 130 3                  |
| Ecuador                     | Oriente 30 <sup>0</sup>                             | 28 20         | 34 25                 | 40 06                 | 33 50                 | 12 35                                | 15 8                  | 128 3                  |
| Total OPEC <sup>3</sup>     | NA  | 28 63         | 34 13                 | 34 82                 | 28 30                 | 13 03                                | 1 2                   | 119 7                  |
| Non OPEC                    |   |               |                       |                       |                       |                                      |                       |                        |
| United Kingdom              | Forties 36 <sup>0</sup>                             | 29 75         | 36 50                 | 39 25                 | 29 75                 | 14 00                                | 0                     | 112 5                  |
| Norway                      | Ekofisk 42 <sup>0</sup>                             | 30 25         | 37 25                 | 40 00                 | 32 50                 | 14 20                                | 6 9                   | 113 0                  |
| Mexico                      | Mexican Light 33 <sup>0</sup>                       | 29 00         | 35 00                 | 38 50                 | 32 00                 | 13 10                                | 9 4                   | 121 4                  |
| "                           | Mexican Heavy 22 <sup>0</sup>                       | 25 00         | 26 50                 | 34 50                 | 28 00                 | NA                                   | -10 7                 | NA                     |
| Egypt                       | Suez Blend 33 <sup>0</sup>                          | 4 28 50       | 34 00                 | 40 50                 | 34 00                 | 12 81                                | -16 2                 | 122 5                  |
| Oman                        | Oman 34 <sup>0</sup>                                | 29 00         | 35 00                 | 37 50                 | 30 25                 | 13 06                                | 4 2                   | 122 1                  |
| Syria                       | Suwadiah 26 <sup>0</sup>                            | 25 00         | 30 00                 | 36 03                 | 31 39                 | 11 64                                | -20 4                 | 114 8                  |
| Malaysia                    | Miri 38 <sup>0</sup>                                | 29 85         | 36 50                 | 41 30                 | 33 60                 | 14 30                                | 11 2                  | 108 7                  |
| Brunei                      | Serla 36 <sup>0</sup>                               | 30 10         | 36 10                 | 40 35                 | 33 40                 | 14 15                                | 9 9                   | 112 7                  |
| U.S.S.R. <sup>5</sup>       | Export Blend 33 <sup>0</sup>                        | 29 50         | 35 49                 | 39 25                 | 33 20                 | 13 20                                | -11 1                 | 123 5                  |
| Total Non OPEC <sup>3</sup> | NA  | 28 77         | 34 35                 | 38 54                 | 31 94                 | 13 44                                | 9 9                   | 114 1                  |
| Total World <sup>3</sup>    | NA  | 28 67         | 34 18                 | 35 49                 | 28 84                 | 13 08                                | 0 6                   | 119 2                  |
| United States <sup>6</sup>  | NA  | 28 23         | 34 15                 | 36 69                 | 29 35                 | 13 38                                | 3 8                   | 111 0                  |

NA=Not Applicable.

<sup>1</sup> Official sales prices or estimated term contract prices, spot prices excluded

<sup>2</sup> 37c higher at 60 days' credit

<sup>3</sup> Average prices (FOB) weighted by estimated export volume

<sup>4</sup> On 60 days' credit

<sup>5</sup> Average delivered cost to Northwest Europe

<sup>6</sup> Average prices (FOB) weighted by estimated import volume

Source: • DOE, Office of International Affairs, October 4, 1983.

• Platt's Oilgram Price Report

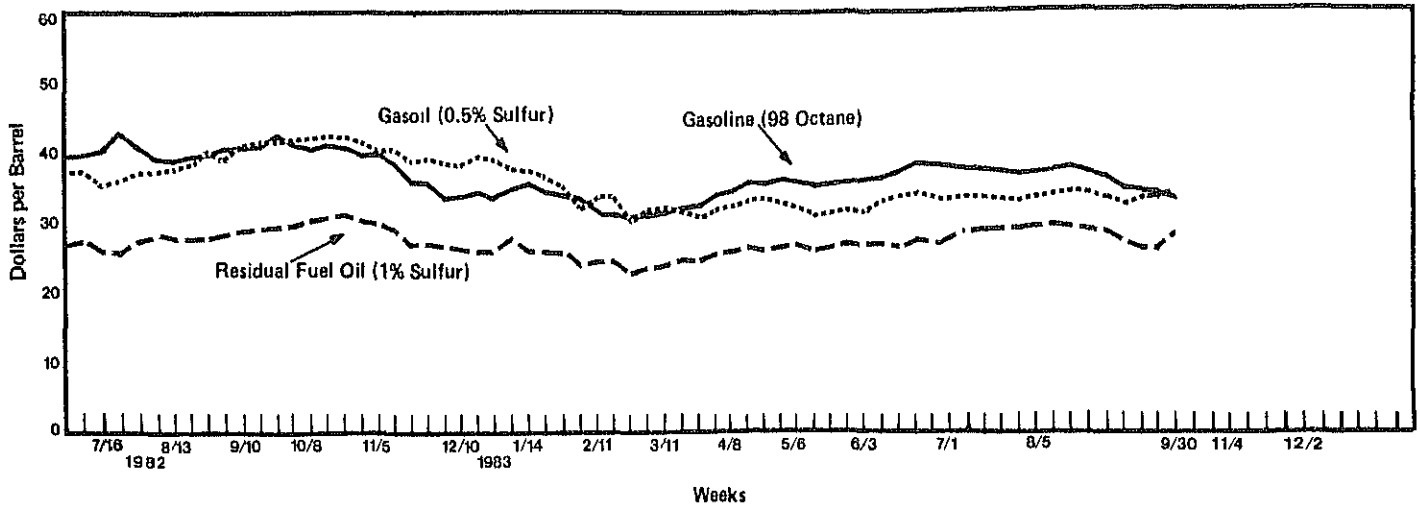
• Petroleum Intelligence Weekly

• Oil Buyers' Guide.

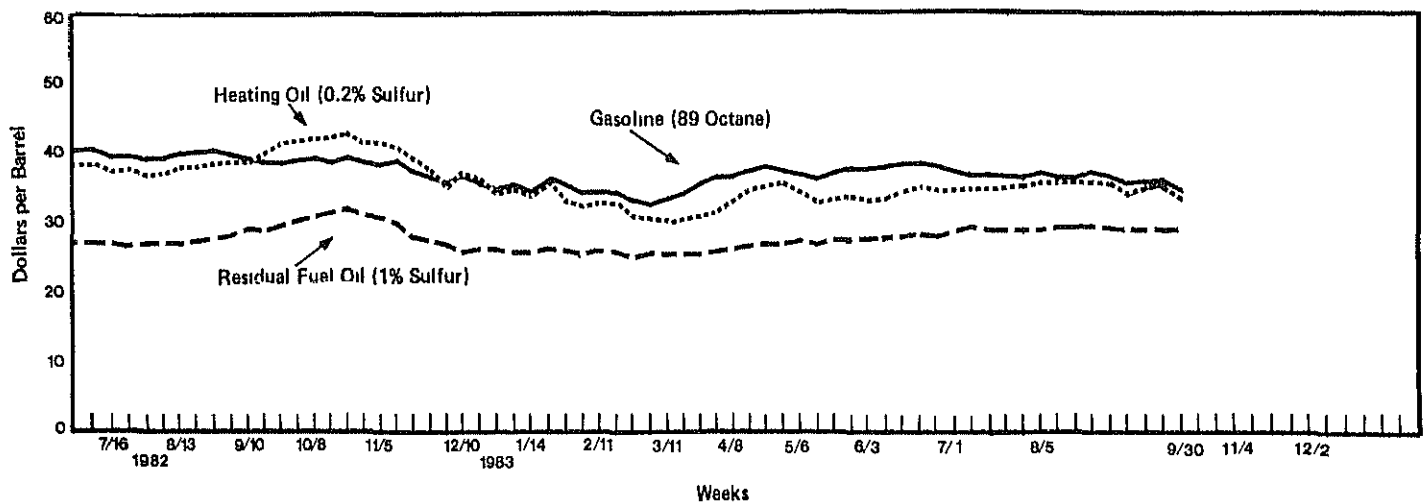
• Europe Oil Prices

Spot Market Product Prices  
(Dollars per Barrel)

Rotterdam Market



New York Market



Source: • Oil Buyers' Guide, Weekly Oil Market Product Report Not published weeks of July 4 and December 25  
• DOE, Office of International Affairs

**Spot Market Product Prices**  
(Dollars per Barrel)

|          |     | Motor Gasoline           |                                  | Gasoil/Heating Oil <sup>1</sup> |                                    | Residual Fuel Oil <sup>2</sup> |                                  |
|----------|-----|--------------------------|----------------------------------|---------------------------------|------------------------------------|--------------------------------|----------------------------------|
|          |     | Rotterdam<br>(98 Octane) | N.Y. <sup>3</sup><br>(89 Octane) | Rotterdam<br>(0.5% Sulfur)      | N.Y. <sup>4</sup><br>(0.2% Sulfur) | Rotterdam<br>(1% Sulfur)       | N.Y. <sup>3</sup><br>(1% Sulfur) |
| 1982 Oct | 1   | 41.03                    | 38.54                            | 41.96                           | 41.58                              | 29.88                          | 30.25                            |
|          | 8   | 40.15                    | 38.96                            | 42.29                           | 42.00                              | 30.33                          | 30.35                            |
|          | 15  | 41.03                    | 38.74                            | 42.96                           | 42.42                              | 30.48                          | 31.00                            |
|          | 22  | 40.04                    | 39.69                            | 42.76                           | 42.74                              | 30.78                          | 31.35                            |
|          | 29  | 39.39                    | 38.96                            | 41.42                           | 41.37                              | 30.26                          | 30.75                            |
|          | Nov | 5                        | 39.80                            | 39.88                           | 41.37                              | 29.95                          | 30.50                            |
|          |     | 12                       | 38.22                            | 40.28                           | 40.32                              | 28.75                          | 30.00                            |
|          |     | 19                       | 36.11                            | 38.81                           | 38.85                              | 26.88                          | 28.00                            |
|          | Dec | 26                       | 36.28                            | 38.87                           | 37.06                              | 26.88                          | 27.50                            |
|          |     | 3                        | 33.65                            | 38.67                           | 35.07                              | 26.95                          | 26.75                            |
|          |     | 10                       | 33.88                            | 38.20                           | 36.96                              | 26.80                          | 25.75                            |
|          |     | 17                       | 34.00                            | 39.75                           | 36.12                              | 26.73                          | 26.35                            |
|          |     | 24                       | 33.70                            | 39.28                           | 34.86                              | 26.73                          | 26.35                            |
|          | 31  | Not available.           |                                  |                                 |                                    |                                |                                  |
| 1983 Jan | 7   | 34.88                    | 35.13                            | 37.73                           | 34.86                              | 27.55                          | 25.75                            |
|          | 14  | 35.46                    | 34.82                            | 37.47                           | 34.44                              | 26.73                          | 25.75                            |
|          | 21  | 34.29                    | 36.29                            | 37.00                           | 35.60                              | 26.58                          | 26.00                            |
|          | 28  | 33.88                    | 35.03                            | 34.45                           | 33.08                              | 25.98                          | 25.50                            |
|          | Feb | 4                        | 33.70                            | 32.37                           | 32.55                              | 23.87                          | 25.00                            |
|          |     | 11                       | 31.48                            | 33.98                           | 32.76                              | 24.47                          | 26.00                            |
|          |     | 18                       | 31.48                            | 33.98                           | 32.76                              | 24.47                          | 26.00                            |
|          | 25  | 30.72                    | 33.24                            | 30.63                           | 31.08                              | 22.97                          | 25.00                            |
|          | Mar | 4                        | 31.01                            | 31.70                           | 30.56                              | 23.50                          | 25.25                            |
|          |     | 11                       | 31.65                            | 33.41                           | 31.70                              | 24.17                          | 25.25                            |
|          |     | 18                       | 32.30                            | 31.64                           | 30.56                              | 24.92                          | 25.25                            |
|          | 25  | 32.53                    | 35.57                            | 30.90                           | 30.76                              | 24.70                          | 25.25                            |
|          | Apr | 1                        | 33.82                            | 31.70                           | 31.71                              | 25.23                          | 25.75                            |
|          |     | 8                        | 34.70                            | 32.51                           | 32.66                              | 25.30                          | 26.00                            |
|          |     | 15                       | 36.69                            | 37.09                           | 34.65                              | 25.90                          | 26.50                            |
|          | 22  | 35.58                    | 37.40                            | 33.78                           | 35.28                              | 25.60                          | 26.75                            |
|          | 29  | 36.75                    | 37.19                            | 33.51                           | 35.49                              | 25.98                          | 26.75                            |
|          | May | 6                        | 36.28                            | 32.51                           | 34.54                              | 25.98                          | 27.00                            |
|          |     | 13                       | 34.94                            | 31.57                           | 33.18                              | 25.30                          | 26.50                            |
|          |     | 20                       | 35.35                            | 31.97                           | 33.28                              | 25.75                          | 27.00                            |
|          | 27  | 35.58                    | 37.19                            | 32.24                           | 33.50                              | 26.13                          | 27.25                            |
|          | Jun | 3                        | 35.76                            | 37.19                           | 32.10                              | 33.28                          | 25.98                            |
|          |     | 10                       | 35.81                            | 37.32                           | 33.24                              | 33.39                          | 25.98                            |
|          |     | 17                       | 36.87                            | 37.84                           | 33.38                              | 34.12                          | 25.83                            |
|          | 24  | 37.87                    | 37.84                            | 33.51                           | 34.23                              | 26.80                          | 28.50                            |
|          | Jul | 1                        | 37.16                            | 32.84                           | 34.02                              | 26.28                          | 28.35                            |
|          |     | 8                        | Not available.                   |                                 |                                    |                                |                                  |
|          |     | 15                       | 36.81                            | 33.18                           | 34.23                              | 28.00                          | 29.00                            |
|          | 22  | 36.28                    | 36.63                            | 33.18                           | 34.23                              | 28.23                          | 28.75                            |
|          | 29  | 36.05                    | 36.52                            | 33.04                           | 34.34                              | 28.15                          | 28.75                            |
|          | Aug | 5                        | 36.22                            | 33.71                           | 35.18                              | 28.53                          | 28.75                            |
|          |     | 12                       | 36.40                            | 34.18                           | 35.28                              | 28.68                          | 29.00                            |
|          |     | 19                       | 36.52                            | 34.79                           | 35.28                              | 28.53                          | 29.00                            |
|          | 26  | 36.34                    | 36.73                            | 34.65                           | 35.28                              | 28.38                          | 29.35                            |
|          | Sep | 2                        | 35.87                            | 34.18                           | 35.07                              | 28.08                          | 29.25                            |
|          |     | 9                        | 34.47                            | 33.58                           | 34.65                              | 27.33                          | 28.75                            |
|          |     | 16                       | 34.35                            | 33.44                           | 34.86                              | 26.95                          | 28.75                            |
|          | 23  | 34.41                    | 35.87                            | 33.85                           | 35.01                              | 26.95                          | 28.75                            |
|          | 30  | 33.24                    | 34.92                            | 33.71                           | 34.02                              | 27.63                          | 28.75                            |

<sup>1</sup> Refers to No. 2 Heating Oil.

<sup>2</sup> Refers to No. 6 Oil.

<sup>3</sup> East Coast Cargoes.

<sup>4</sup> New York Harbor Reseller Barge Prices.

Source: • Oil Buyers' Guide, Weekly Oil Market Product Report. Not published weeks of July 4 and December 25.

• DOE, Office of International Affairs.





## Appendix A. EIA WEEKLY DATA: SURVEY DESIGN AND ESTIMATION METHODS

The Weekly Petroleum Reporting System (WPRS) comprises five surveys: the "Weekly Refinery Report" (EIA-800); the "Weekly Bulk Terminal Report" (EIA-801); the "Weekly Product Pipeline Report" (EIA-802); the "Weekly Crude Oil Stocks Report" (EIA-803); and the "Weekly Imports Report" (EIA-804). The EIA weekly reporting system, as part of the Petroleum Supply Reporting System, was designed to collect data similar to those collected monthly. In the WPRS, selected petroleum companies report weekly data to EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On the Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. Current weekly data and the most recent monthly data are used to estimate the published weekly totals.

### Sample Frame

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly. All sampled companies report data only for facilities in the 50 States and District of Columbia. The EIA-800 sample frame includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and bulk terminals that blend motor gasoline. The EIA-801 sample frame includes all bulk terminal facilities in the United States and its territories that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The EIA-802 sample frame includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that only transport natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies which transport products covered in the weekly survey are included. The EIA-803 sample frame consists of all companies which carry or store crude oil of 1,000 barrels or more. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water. The EIA-804 sample frame includes all importers of record of crude oil and petroleum products into the United States.

### Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for the previous time period.

|                    | Refiners<br>(Refineries) | Bulk<br>Terminals | Pipelines | Crude Oil<br>Stock Holders | Importers |
|--------------------|--------------------------|-------------------|-----------|----------------------------|-----------|
| Weekly Form        | EIA-800                  | EIA-801           | EIA-802   | EIA-803                    | EIA-804   |
| Monthly Frame Size | 172(300)                 | 276               | 78        | 168                        | 1086      |
| Weekly Sample Size | 60(165)                  | 88                | 46        | 82                         | 62        |

### Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. All canvassed firms and terminal operating companies must file by 5:00 p.m. on the Monday following the close of the report period, 7 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered.

### Estimation and Imputation

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data. First, the current week's data for a given product reported by companies in that region are summed. (Call this weekly sum,  $W_t$ ). Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum,  $M_s$ ). Finally, let  $M_t$  be the sum of the most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies,  $W_t$ , is given by:

$$W_t = \frac{M_t}{M_s} \cdot W_s$$

This procedure is used directly to estimate total weekly inputs to refineries and production. To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a company-by-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly observations and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unreported products because of coverage differences between the monthly imports data and Census data.

Imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

### Response Rates

The response rate as of the day after the filing deadline is about 80 percent for the EIA-800; 75 percent for the EIA-801; 95 percent for the EIA-802; 80 percent for the EIA-803; and greater than 95 percent for the EIA-804. However, more forms are received the next day, bringing the final response rates up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published estimates is usually between 2 percent and 5 percent.

## Appendix B. INTERPRETATION AND DERIVATION OF AVERAGE INVENTORY LEVELS

The national inventory (stocks) graphs for total petroleum products, crude oil, motor gasoline, distillate fuel oil, and residual fuel oil in this publication include features to assist in comparing current inventory levels with past inventory levels and with judgments of critical levels. Methods used in developing the average inventory levels and minimum operating levels are described below.

### Average Inventory Levels

The charts displaying inventory levels of total petroleum products (p. 7), crude oil (p. 7), motor gasoline (p. 9), distillate fuel oil (p. 11), and residual fuel oil (p. 13) provide the reader with actual inventory data compared to an "average range" from the most recent 3-year period running from January through December or from July through June. The ranges are updated every six months in March and October. The 3-year period is adjusted by dropping the oldest 6 months and including the most recent 6 months. The ranges also reflect seasonal variation determined from a longer time period. The seasonal factors, which determine the shape of the upper and lower curves, are updated annually in October, using the most recent year's final monthly data.

The monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported inventory levels). The intent of deseasonalization is to remove only annual variation from the data. Thus, deseasonalized series would contain the same trends, cyclical components, and irregularities as the original data. The seasonal factors for total petroleum (crude and products), crude oil, distillate fuel oil, and residual fuel oil were derived using monthly data from 1976-1982. For motor gasoline, the seasonal factors were based on monthly data from 1976 and 1978-1982. In 1977, monthly stock levels of motor gasoline stayed at the same high level for the entire year. Since there was virtually no seasonal behavior in motor gasoline stocks that year, 1977 was not used in the determination of seasonal patterns for motor gasoline stocks.

After seasonal factors are derived, data from the most recent 3-year period (January-December or July-June) are deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard deviation of the deseasonalized 36-months is calculated adjusting for extreme data points. The upper curve of the "average range" is defined as the average plus the seasonal factors plus the standard deviation. The lower curve is defined as the average plus the seasonal factors minus the standard deviation. Thus, the width of the "average range" is twice the standard deviation. The values of the upper and lower curves are presented in the table below.

Values of Average Ranges in Inventory Graphs  
(Millions of Barrels)

|                     | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Lower Range</b>  |        |        |        |        |        |        |        |        |        |        |        |        |
| Total Petroleum     | 1121.1 | 1075.5 | 1071.2 | 1076.5 | 1089.1 | 1102.3 | 1129.4 | 1146.1 | 1167.8 | 1174.1 | 1177.0 | 1141.0 |
| Crude Oil           | 350.1  | 348.5  | 355.8  | 359.5  | 356.4  | 356.3  | 354.7  | 346.9  | 346.5  | 354.6  | 353.9  | 344.0  |
| Motor Gasoline      | 244.8  | 247.7  | 245.2  | 235.8  | 226.4  | 221.3  | 221.3  | 218.6  | 219.4  | 214.2  | 221.4  | 227.9  |
| Distillate Fuel Oil | 144.5  | 115.4  | 103.8  | 102.5  | 111.6  | 126.1  | 147.1  | 167.7  | 184.1  | 189.0  | 188.7  | 170.9  |
| Residual Fuel Oil   | 59.5   | 51.1   | 50.9   | 51.2   | 55.9   | 53.7   | 55.9   | 56.9   | 61.8   | 65.0   | 65.6   | 65.0   |
| <b>Upper Range</b>  |        |        |        |        |        |        |        |        |        |        |        |        |
| Total Petroleum     | 1292.0 | 1246.5 | 1242.1 | 1247.4 | 1260.0 | 1273.2 | 1300.3 | 1317.1 | 1338.7 | 1345.0 | 1347.9 | 1311.9 |
| Crude Oil           | 377.7  | 376.1  | 383.4  | 387.2  | 384.1  | 383.9  | 382.3  | 374.6  | 374.1  | 382.2  | 381.5  | 371.7  |
| Motor Gasoline      | 276.0  | 278.9  | 276.4  | 267.0  | 257.6  | 252.6  | 252.5  | 249.8  | 250.6  | 245.4  | 252.6  | 259.2  |
| Distillate Fuel Oil | 191.0  | 161.8  | 150.3  | 149.0  | 158.1  | 172.6  | 193.6  | 214.2  | 230.5  | 235.5  | 235.2  | 217.3  |
| Residual Fuel Oil   | 82.4   | 74.1   | 73.9   | 74.2   | 78.9   | 76.7   | 78.8   | 79.9   | 84.8   | 88.0   | 88.6   | 88.0   |

### Minimum Operating Levels

The lines labeled "minimum operating inventory" for crude oil, motor gasoline, distillate fuel oil, and residual fuel oil were derived by the National Petroleum Council from a 1978 survey of petroleum refineries, bulk terminal operators, and petroleum pipelines. The Council also surveyed industry experts. The findings were published in "Petroleum Storage and Transportation Capacities" in December 1979. In that document, minimum operating inventory is described as follows:

Inventory below this level is not available for consumer use because it is required to fill pipelines, tank bottoms and refinery process equipment; facilitate blending to meet the product specifications; prepare for planned maintenance periods; handle unavoidable but anticipated emergencies; and sustain uninterrupted operations. Runouts and shortages would begin to occur if inventory were to fall below this level.

The values were: crude oil -- 290 million barrels; motor gasoline -- 210 million barrels; distillate fuel oil -- 125 million barrels; and residual fuel oil -- 60 million barrels.

The National Petroleum Council did not derive a minimum operating inventory level for total petroleum stocks, the line labeled "minimum" is based on the lowest inventory level observed during the same 3-year base period that was used in the average inventory levels. For crude oil, motor gasoline, distillate fuel oil, and residual fuel oil, the observed minimum operating inventory are quite close. Hence, it is thought that the observed minimum is a reasonable minimum operating inventory.

## Appendix C. PROJECTION OF PRODUCT SUPPLIED FROM THE MAY 1983 SHORT-TERM ENERGY OUTLOOK

The projections of "high" and "low" total petroleum demand, shown in the WPSR as total product supplied, are from the Office of Energy Markets and End Use, Short-Term Energy Outlook (Outlook), May 1983.

The three forecast cases presented in the Outlook are based on differing assumptions about the world price of crude oil. In the low price case, it is assumed that world oil prices collapse to an effective OPEC marker price of \$25 per barrel that results in an average cost of imported crude to U. S. refiners of \$25.43 per barrel from the fourth quarter of 1983 through the forecast period. In the base case, it is assumed the marker crude price decreases to a level in line with the recent OPEC agreement, which results in an average cost for imported crude to U. S. refiners of \$29.43 per barrel. In the high price case, it is assumed that imported crude oil prices rise at twice the U. S. rate of inflation.

The "high demand" case is formed by adding the low price forecast of total demand to the square root of the sum of the squares of the increases in demand that result from the following changes in key variables: (1) a 10-percent increase in heating degree-days over the base case, (2) a 14-percent increase in cooling degree-days over the base case, (3) an increase in income over the base case that reflects the average forecast errors for income over a 3-year period, (4) an 0.5 percent decrease in new-car efficiency from the base case in 1983, and (5) a preliminary data adjustment factor. The "low demand" case is formed by subtracting from the high price forecast the square root of the sum of the squared decreases in demand resulting from decreases from the base case assumptions for heating degree-days, cooling degree-days, and income; and a 0.7 percent increase from the base case new-car efficiency in 1983.

For detailed information on the assumptions used in the forecast methodologies, please refer to the published report, Short-Term Energy Outlook, May 1983.

Copies of the report are available from:

National Energy Information Center  
Room 1F-048, Forrestal Building  
1000 Independence Avenue, S. W.  
Washington, DC 20585  
Telephone 202-252-8800

## Appendix D. CHANGE IN 1983 WEEKLY PETROLEUM STATUS REPORT SERIES

Some data series presented in the 1983 issues of the Weekly Petroleum Status Report (WPSR) are different from 1982 WPSR data series. The differences, which are discussed below, are the result of changes made in the 1983 weekly data collection forms of the Petroleum Supply Reporting System, a change in estimation methodology, and changes in the sample frame.

### Changes from Data Forms

In 1983, weekly petroleum supply forms collect data for finished motor gasoline production, stocks, and imports. This change means that the components of 1983 WPSR motor gasoline product supplied estimates are definitionally the same as the components of the monthly product supplied estimates calculated from monthly data. In 1982, weekly forms combined imports of motor gasoline blending components with finished motor gasoline imports in a single category: total motor gasoline imports. In 1983 imports of motor gasoline include finished product only. In 1983, weekly forms include imports of motor gasoline blending components in other oils imports. In the 1983 WPSR publication, the monthly other oils series for 1981 and 1982 (see p. 15) includes imports of motor gasoline blending components. In 1982, imports of motor gasoline blending components averaged 39 thousand barrels a day and ranged between 19 and 50 thousand barrels per day.

Kerosene production and stocks reports are not collected on 1983 weekly forms. Consequently, in 1983, the weekly other oils stocks estimate (pgs. 3 and 6) includes kerosene. Other oils product supplied, which is calculated for the WPSR as the difference between total product supplied and the product supplied estimates of listed products, is larger in 1983 because it includes kerosene product supplied, which can no longer be calculated from weekly data (see p. 16). Kerosene stocks in 1982 ranged between 8.8 and 10.4 million barrels. The values of kerosene product supplied averaged 128 thousand barrels per day in 1982.

### Change in Methodology

In 1983, reports of crude oil used as fuel on leases are treated as reports of crude oil product supplied, a new product supplied category. Before 1983, crude oil used in this fashion was reported as a use of distillate fuel oil or residual fuel oil and was included in the respective product supplied calculations. Weekly estimates for product supplied made in 1983 do not include estimates for these quantities and are compared in the U.S. Petroleum Balance (p. 3) to recast 1982 data. The monthly series for 1981 and 1982 shown on p. 16 are the quantities originally calculated and published including crude oil used as fuel. In 1982, the quantities of crude oil used directly in the distillate fuel oil product supplied and residual fuel oil product supplied calculations averaged 10 thousand barrels per day and 48 thousand barrels per day, respectively.

### Change in Stock Basis

The list of operators of bulk terminals, pipelines, and crude stock holders required to report each month about crude oil and petroleum product stocks was updated in a regular review of the petroleum supply reporting frame during 1982. (See the article in the Petroleum Supply Monthly, March 1983 for details.) This expansion was first incorporated in monthly data published for January 1983. The new list of operators was also used to select new samples for EIA Forms 801 (bulk terminals), 802 (pipelines), and 803 (crude stock holders) of the weekly petroleum reporting system. The new weekly sample was used for estimation beginning with the week ending April 1, 1983. Estimates for the weeks between the end of January 1983 and April 1, 1983 were revised to reflect the contributions of the new frame members. The revisions were done by using information about the stocks held by the new and old reporters on December 31, 1982. The table below shows the new-basis stock levels for December 31, 1982 which can be compared with the old frame stock levels shown on the respective pages of the WPSR. The new-basis stocks of crude oil and petroleum products, including the Strategic Petroleum Reserve, are 2.2 percent greater than the old basis stocks.

New Basis Stock Levels for Crude Oil and Petroleum Products, December 31, 1982

|                        | Percent Increase | U.S. Total | PAD 1   | PAD 2   | PAD 3<br>(Thousands of Barrels) | PAD 4  | PAD 5   |
|------------------------|------------------|------------|---------|---------|---------------------------------|--------|---------|
| Crude Oil              | 0.0 <sup>1</sup> | 643,871    | 17,550  | 78,556  | 453,697                         | 13,491 | 80,577  |
| Total Motor Gasoline   | 3.8              | 244,279    | 69,397  | 67,135  | 68,016                          | 8,559  | 31,172  |
| Finished Gasoline      | 4.1              | 202,537    | 64,116  | 57,903  | 51,182                          | 6,086  | 23,250  |
| Blending Components    | 2.0              | 41,742     | 5,281   | 9,232   | 16,834                          | 2,473  | 7,922   |
| Naphtha-Type Jet Fuel  | 26.9             | 7,189      | 1,384   | 1,310   | 2,367                           | 349    | 1,779   |
| Kerosene-Type Jet Fuel | 2.6              | 32,001     | 9,626   | 7,310   | 9,004                           | 638    | 5,423   |
| Distillate Fuel Oil    | 3.9              | 185,579    | 84,681  | 48,221  | 34,921                          | 4,051  | 13,705  |
| Residual Fuel Oil      | 3.1              | 68,229     | 35,686  | 5,383   | 16,698                          | 634    | 9,828   |
| Unfinished Oils        | 0.0              | 105,277    | 13,656  | 17,784  | 46,209                          | 2,686  | 24,942  |
| Other Oils             | 7.1              | 175,592    | 22,073  | 49,714  | 90,142                          | 3,757  | 9,806   |
| Total Oils             | 2.2 <sup>1</sup> | 1,462,017  | 254,053 | 275,413 | 721,054                         | 34,165 | 177,332 |

<sup>1</sup> Calculated including stocks of crude oil in Strategic Petroleum Reserve (293,827 thousand barrels on December 31, 1982).  
Source: EIA, "Petroleum Supply Monthly."

## Appendix E. CALCULATION OF WORLD OIL PRICES (page 19)

The weighted average international price of oil, shown in the "Highlights" and on page 19, is an average calculated using specific crude oil prices weighted by the estimated crude oil export volume for each oil-producing country. To develop the table shown on page 19, a list of major oil producing/exporting countries was chosen. For each country, the official selling price of one or more representative crude oils was determined by investigating a number of industry publications (i.e., "Oil Buyers' Guide," "Platt's Oilgram Price Report," "Petroleum Intelligence Weekly," and "Europe Oil Prices") and by contacting oil market analysts.

Then, the appropriate crude oil volumes to be used as weighting factors for each country were determined. These volumes are estimates based on a number of sources which provide data on production, consumption, and exports for these countries. Export volumes for a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors. After the export volumes had been determined, simple mathematical weighted averages were calculated to arrive at the "Total OPEC," "Total Non-OPEC," and "Total World" prices.

The average United States (FOB) import price is derived by the same basic procedure as the world oil price, that is, taking the representative official crude oil price of a specific crude oil from a particular country and weighting this price by a certain volume of crude oil. In this case, the weighting factors are the volumes of crude oil imported into the U.S. from pertinent countries. Import volumes from a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors.

Both the import and export volumes are preliminary. Due to their origin, these estimates cannot be fully verified. These volumes are updated monthly, or more frequently when changes in oil market conditions make updating appropriate.

## Glossary

- **Barrels.** 42-gallon barrels
- **Crude Oil.** A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Lease condensate and drips are included but topped crude oil (residual) and other unfinished oils are excluded.
- **Crude Oil Inputs.** The total crude oil put into processing units at refineries.
- **Distillate Fuel Oils.** Includes No. 1, No. 2, and No. 4 fuel oils, and No. 1, No. 2, and No. 4 diesel fuels. These are light fuel oils used primarily for home heating as a diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and for electric power generation.
- **Gross Inputs.** The crude oil, unfinished oils, and natural gas plant liquids put into distillation units
- **Imports.** Unless otherwise specified in this report, refers to gross imports. Imports of minor products ("other oils") include aviation gasoline, kerosene, unfinished oils, liquefied petroleum gases, plant condensate, petrochemical feedstocks, lube oils, waxes, special naphthas, coke, asphalt, blending components, and other miscellaneous oils.
- **Jet Fuel.** Includes kerosene-type jet fuel and naphtha-type jet fuel. Kerosene-type jet fuel is a kerosene quality product used primarily for commercial turbojet and turboprop aircraft engines. Naphtha-type jet fuel is a fuel in the heavy naphthas range used primarily for military turbojet and turboprop aircraft engines.
- **Motor Gasoline.** Finished leaded gasoline, finished unleaded gasoline, and blending components in the gasoline range. Production and imports data represent finished leaded gasoline and finished unleaded gasoline. Stocks data consist of the two types of finished gasoline and blending components. Stock change used in the calculation of motor gasoline product supplied is the change in finished motor gasoline stocks. Imports of motor gasoline blending components are contained in other oils imports.
- **Operable Capacity.** The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and grades of inputs, limitations of downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.
- **Product Supplied.** A value calculated for specific products which is equal to domestic production plus net imports (imports less exports), less the net increase in primary stocks. Total products supplied is calculated as inputs to refineries, plus estimated refinery gains, plus other hydrocarbon input, plus product imports, less product exports, less the net increase in product stocks. Values shown for "Other Oils" product supplied are the difference between total product supplied and product supplied values for specified products. Other oils product supplied incorporates crude oil product supplied and reclassified product adjustment.
- **Refiner Acquisition Cost of Crude Oil.** The average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1131. Imported crude oil is any crude oil which is not domestic oil. The composite is the weighted average price of domestic and imported crude oil. Prices do not include price of unfinished oils or SPR.
- **Refinery Capacity Utilization.** Ratio of the total amount of crude oil, unfinished oils, and natural gas plant liquids run through crude oil distillation units to the operable capacity of these units. In the period 1979-1982 the refinery capacity utilization for all U.S. refineries ranged between 87 percent and 65 percent. The ratio for an individual refinery may fluctuate much more depending on the type of crude and other raw materials processed, the type of products produced, and the operating conditions of the refinery.
- **Residual Fuel Oils.** Includes No. 5 and No. 6 fuel oils which are heavy oils used primarily for electric power generation, for industrial and commercial space heating, as a ship fuel, and for various industrial uses.
- **Retail Motor Gasoline Prices.** Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). These prices are collected in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service).
- **Stocks.** For individual products in WPSR, quantities held at refineries, in pipelines, and at bulk terminals with a capacity over 50 thousand barrels. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but included in "Other Oils" estimates and "Total."
- **Stock Change (Refined Products).** Component of Product Supplied calculation shown on U. S. Petroleum Balance. The product stock change shown on the U.S. Petroleum Balance Sheet for the current 4-week period is calculated in the following way: an average daily stock change is calculated for major refined products (i.e., all actual reported stocks); this stock change is added to an estimate for minor product stock change based on historical monthly data; a daily average stock change for refined product stocks for the 4-week period is then calculated. To calculate minor product stock change, the stock levels shown for other oils in the stock section of the balance sheet are used. These other oils stock levels are derived by: 1) computing an average daily rate of stock change for each month based on monthly data for the past six years; 2) using this daily rate and the minor stock level from the most recent monthly publication to estimate the minor product stock level for the current period.
- **Unaccounted-for Crude Oil.** Term which appears in U.S. Petroleum Balance Sheet. It reconciles the difference between data (or estimates) about supply and data (or estimates) about use. Its value can be positive or negative since it is a balancing term. As it appears in the monthly publications, it reflects the accuracy of the reported data on crude oil imports, production, stocks, refinery input, losses, exports, and transfers (crude oil burned directly as fuel oil). It reflects the quality of the estimates as well as the accuracy of the reported data. Because the unaccounted-for crude oil figure reflects the accuracy of reported and estimated figures, one would expect the figure to be larger in balances using preliminary or estimated data and smaller in balances using the final data. In fact, the published figures confirm this expectation. In the WPSR, four-week averages for the previous year are interpolated from final monthly data, so that the unaccounted-for crude oil value for the previous years is considerably smaller than that for the current period.
- **United States.** For the purpose of this report, the 50 states and the District of Columbia. Data for the Virgin Islands, Puerto Rico, and other U.S. territories are not included in the U.S. totals.

